# CENTRALIZED EQUAL ACCESS SERVICE

Regulations, Rates and Charges applicable to Centralized Equal Access Services provided by:

SOUTH DAKOTA NETWORK, LLC

FOR CONNECTION TO INTERSTATE COMMUNICATIONS FACILITIES

FOR CUSTOMERS WITHIN THE STATE OF SOUTH DAKOTA

Centralized Equal Access Service is provided by means of wire, radio, satellite, fiber optics or other suitable technology or combinations thereof.

**This tariff cancels South Dakota Network, Inc. Tariff F.C.C. No. 1**

**and adopts its provisions in their entirety.**

The original effective date of South Dakota Network, Inc. Tariff F.C.C. No. 1 is July 1, 1997



**By: Darrell Henderson, President**
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## CENTRALIZED EQUAL ACCESS SERVICE

## CHECK SHEET

Title Page and Pages 1 to 166, inclusive, of this tariff are effective as of the date shown. Revised pages as set forth below contain all changes from the original tariff which are in effect on the date hereof.

| Page | Number of Revision |
|---|---|
| Title | Original |
| 1 | 1st* |
| 2 thru 133 | Original |
| 134 | 1st* |
| 135 thru 166 | Original |

* New or Revised Page - This Issue.



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**CENTRALIZED EQUAL ACCESS SERVICE**

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

## CENTRALIZED EQUAL ACCESS SERVICE

### EXPLANATION OF SYMBOLS

(C) - To signify changed regulation.
(D) - To signify discontinued rate or regulation.
(I) - To signify increase.
(M) - To signify matter relocated without change.
(N) - To signify new rate or regulation.
(R) - To signify reduction.
(S) - To signify reissued matter.
(T) - To signify a change in text but no change in rate or regulation.
(Z) - To signify a correction.

### EXPLANATION OF ABBREVIATIONS

| | | |
|---|---|---|
| AAT | - | Additional Automatic Testing |
| ac | - | Alternating Current |
| ACAT | - | Additional Cooperative Acceptance Testing |
| ANI | - | Automatic Number Identification |
| AT&T-C | - | AT&T Communications |
| BD | - | Business Day |
| BHMC | - | Busy Hour Minutes of Capacity |
| CO | - | Central Office |
| Cont'd | - | Continued |
| CPE | - | Customer Provided Equipment |
| DA | - | Directory Assistance |
| dB | - | Decibel |
| dBrnC | - | Decibel Reference Noise C-Message Weighting |
| dBrnCO | - | Decibel Reference Noise C-Message Weighted O |
| dc | - | Direct Current |
| EDD | - | Envelope Delay Distortion |
| ELEPL | - | Equal Level Echo Path Loss |
| EML | - | Expected Measured Loss |
| EPL | - | Echo Path Loss |
| ERL | - | Echo Return Loss |
| ESS | - | Electronic Switching System |
| FGA | - | Feature Group A |
| FGB | - | Feature Group B |
| FGD | - | Feature Group D |
| F.C.C. | - | Federal Communications Commission |
| Hz | - | Hertz |
| IC | - | Interexchange Carrier |
| ICB | - | Individual Case Basis |
| ICL | - | Inserted Connection Loss |

## CENTRALIZED EQUAL ACCESS SERVICE

### EXPLANATION OF ABBREVIATIONS (Cont'd)

| | | |
|---|---|---|
| LATA | - | Local Access and Transport Area |
| Mbps | - | Megabits per Second |
| MHz | - | Megahertz |
| MRC | - | Monthly Recurring Charge |
| MTS | - | Message Telecommunications Service(s) |
| NANP | - | North American Numbering Plan |
| NPA | - | Numbering Plan Area |
| NRC | - | Nonrecurring Charge |
| NTS | - | Non-Traffic Sensitive |
| NXX | - | Three-Digit Central Office Code |
| POI | - | Point of Interconnection |
| POT | - | Point of Termination |
| REC | - | Routing Exchange Carrier |
| RSM | - | Remote Switching Modules |
| RSS | - | Remote Switching Systems |
| SAC | - | Service Access Code |
| SRL | - | Singing Return Loss |
| USOC | - | Uniform Service Order Code |
| V & H | - | Vertical & Horizontal |
| WATS | - | Wide Area Telecommunications Service(s) |

## CENTRALIZED EQUAL ACCESS SERVICE

## REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Bell Communications Research, Inc., Distribution Storage Center, 60 New England Ave., Piscataway, NJ 08854.

Technical Reference:

Multiple Exchange Carrier Access Billing (MECAB) Guidelines
Issued: December, 1990

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines *
Issued: September 10, 1990

Pub. 41451 High Capacity Terrestrial Digital Service
Issued: January, 1983

Pub. 62411 High Capacity Digital Service Channel Interface Specification
Issued: September, 1983
Addendum: October 1984

TR-NWT-000334 Issue 2 Voice Grade Switched Access Service - Transmission Parameter Limits and Interface Combinations
Issued: September, 1990

TR-TSY-000342 High Capacity Digital Special Access Service
Issued: January, 1990

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### REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the Bell Communications Technical Education Center, Room B02, 6200 Route 53, Lisle, IL 60532.

Telecommunications Transmission Engineering *
Volume 3 - Networks and Services (Chapters 6 and 7)
Second Edition, 1980
Issued: June, 1980

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Director - Tariff and Regulatory Matters, 100 South Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1, Issue II, Access Service
Issued: May, 1984
Addendum: March, 1987

The following publications are referenced in this tariff and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 No. Capital St., N.E., Washington, D.C. 20401.

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook, National Communications System (NCSH 3-1-2).
Issued: July, 1990

Telecommunication Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCSM) 3-1-1).
Issued: July, 1990

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## CENTRALIZED EQUAL ACCESS SERVICE

1. Application of Tariff

1.1 This tariff contains regulations, rates and charges applicable to the provision of Access Services and other miscellaneous services, hereinafter referred to collectively as service(s), provided by South Dakota Network, LLC (SDN), to customers.

1.2 The provision of such services by SDN as set forth in this tariff is subject to the availability of facilities and does not constitute a joint undertaking with the customer or the Routing Exchange Carriers for the furnishing of any service.

Access services provided under this tariff cover only the use of SDN's central access tandem and the transport between a Routing Exchange Carrier's point of interconnection and said central access tandem. End office switches served by SDN's central access tandem are operated by the appropriate Routing Exchange Carrier. Therefore, any access services ordered under this tariff must be used with a like access service ordered from a Routing Exchange Carrier or vice versa.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations

2.1 Undertaking of SDN

2.1.1 Scope

(A) SDN does not undertake to transmit messages under this tariff.

(B) SDN shall be responsible only for the installation, operation and maintenance of the services it provides.

(C) SDN will, for maintenance purposes, test its services only to the extent necessary to detect and/or clear troubles.

(D) SDN will provide services subject to availability of facilities.

(E) When and where facilities are available, services are provided 24 hours daily, seven days per week, except as set forth in other applicable sections of this tariff.

(F) SDN does not warrant that its facilities and services meet standards other than those set forth in this tariff.

2.1.2 Limitations

(A) The customer may not assign or transfer the use of services provided under this tariff; however, where there is no interruption of use or relocation of the services, such assignment or transfer may be made to:

(1) Another customer, whether an individual, partnership, association or corporation, provided the assignee or transferee assumes all outstanding indebtedness for such services, and the unexpired portion of the minimum period and the termination liability applicable to such services, if any; or

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.2 Limitations (Cont'd)

(A) (Cont'd)

(2) A court-appointed receiver, trustee or other person acting pursuant to law in bankruptcy, receivership, reorganization, insolvency, liquidation or other similar proceedings, provided the assignee or transferee assumes the unexpired portion of the minimum period and the termination liability applicable to such services, if any.

In all cases of assignment or transfer, the written acknowledgment of SDN is required prior to such assignment or transfer, which acknowledgment shall be made within fifteen (15) days from the receipt of notification. All regulations and conditions contained in this tariff shall apply to such assignee or transferee.

The assignment or transfer of services does not relieve or discharge the assignor or transferor from remaining jointly or severally liable with the assignee or transferee for any obligations existing at the time of the assignment or transfer.

(B) The use and restoration of services shall be in accordance with Part 64, Subpart D of the Federal Communications Commission's Rules and Regulations, which specifies the priority system for such activities. *

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## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.2 Limitations (Cont'd)

(C) Subject to compliance with the rules mentioned in (B) preceding, the services offered herein will be provided to customers on a first-come, first-served basis. First-come, first-served shall be based upon the received time and date stamped by SDN on customer orders which contain the information as required for each respective service as delineated in other sections of this tariff. Customer orders shall not be deemed to have been received until such information is provided. Should questions arise which preclude order issuance due to missing information or the need for clarification, SDN will attempt to secure such missing information or clarification on a verbal basis.

2.1.3 Liability

(A) SDN's liability, if any, for its willful misconduct is not limited by this tariff. With respect to any other claim or suit, by a customer or by any others, for damages associated with the installation, provision, termination, maintenance, repair or restoration of service, and subject to the provisions of (B) through (F) following, SDN's liability, if any, shall not exceed an amount equal to the proportionate charge for the service for the period during which the service was affected. This liability for damages shall be in addition to any amounts that may otherwise be due the customer under this tariff as a Credit Allowance for a Service Interruption.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.3 Liability (Cont'd)

(B) SDN shall not be liable for any act or omission of any other carrier or customer providing a portion of a service, nor shall SDN for its own act or omission hold liable any other carrier or customer providing a portion of a service.

(C) SDN shall be indemnified, defended and held harmless by the customer against any claim, loss or damage arising from its use of services offered under this tariff, involving:

(1) Claims for libel, slander, invasion of privacy, or infringement of copyright arising from any communications;

(2) Claims for patent infringement arising from combining or using the service furnished by SDN in connection with facilities or equipment furnished by the customer; or

(3) All other claims arising out of any act or omission of the customer in the course of using services provided pursuant to this tariff.

(D) SDN does not guarantee or make any warranty with respect to its services when used in an explosive atmosphere. SDN shall be indemnified, defended and held harmless by the customer from any and all claims by any person relating to the customer's use of services so provided.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.3 Liability (Cont'd)

(E) No license under patents (other than the limited license to use) is granted by SDN or shall be implied or arise by estoppel, with respect to any service offered under this tariff. SDN will defend the customer against claims of patent infringement arising solely from the use by the customer of services offered under this tariff and will indemnify such customer for any damages awarded based solely on such claims.

(F) SDN's failure to provide or maintain services under this tariff shall be excused by labor difficulties, governmental orders, civil commotions, criminal actions against SDN, fire, tornado, flood and similar acts of God and other circumstances beyond SDN's reasonable control, subject to the Credit Allowance for a Service Interruption as set forth in 2.4.4 following.

2.1.4 Provision of Services

The services offered under the provisions of this tariff are subject to availability of facilities. SDN, to the extent that such services are or can be made available with reasonable effort, will provide to the customer, upon reasonable notice, services offered in other applicable sections of this tariff at rates and charges specified therein.

Services provided under this tariff will be made available upon completion of the initial presubscription process set forth in Access and Divestiture Tariffs (CC Docket No. 83-1145 Phase I, 101 FCC 2d 911 (1985). *

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## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.5 Installation and Termination of Services

The Centralized Equal Access Service provided under this tariff (A) includes SDN's communication facilities up to the point of termination as defined in 2.6 following which denotes the demarcation point or network interface and (B) will be provided by SDN to such point of termination. Any additional facilities beyond such point of termination are the sole responsibility of the customer.

2.1.6 Maintenance of Facilities

The facilities provided under this tariff shall be maintained by SDN. The customer or others may not rearrange, move, disconnect, remove or attempt to repair any facilities provided by SDN, other than by connection or disconnection to any interface means used, except with the written consent of SDN.

2.1.7 Changes and Substitutions

Except as provided for equipment and systems subject to F.C.C. Part 68 Regulations * at 47 C.F.R. Section 68.110(b), SDN may, where such action is reasonably required in the operation of its business, (A) substitute, change or rearrange any facilities used in providing service under this tariff, (B) change minimum protection criteria, (C) change operating or maintenance characteristics of facilities or (D) change operations or procedures of SDN. In case of any such substitution, change or rearrangement, the transmission parameters will be within the range as set forth in Section 15. following. SDN shall not be responsible if any such substitution, change or rearrangement renders any customer furnished services obsolete or

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## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.7 Changes and Substitutions (Cont'd)

requires modification or alteration thereof or otherwise affects their use or performance. If such substitution, change or rearrangement materially affects the operating characteristics of the facility, SDN will provide reasonable notification to the customer in writing. Reasonable time will be allowed for any redesign and implementation required by the change in operating characteristics. SDN will work cooperatively with the customer to determine reasonable notification procedures.

2.1.8 Refusal and Discontinuance of Service

(A) Unless the provisions of 2.2.1(B) or 2.5 following apply, if the customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.3, 2.3.4 or 2.4 following, including any payments to be made by it on the dates and times herein specified, SDN may, on thirty (30) days written notice, by Certified U.S. Mail, to the person designated by the customer to receive such notices of noncompliance, refuse additional applications for service and/or refuse to complete any pending orders for service at any time thereafter. If SDN does not refuse additional applications for service on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude SDN's right to refuse additional applications for service without further notice to the noncomplying customer.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.8 Refusal and Discontinuance of Service (Cont'd)

(B) Unless the provisions of 2.2.1(B) or 2.5 following apply, if the customer fails to comply with 2.1.6 preceding or 2.2.2, 2.3.1, 2.3.3, 2.3.4 or 2.4 following, including any payments to be made by it on the dates and times herein specified, SDN may, on thirty (30) days written notice by Certified U.S. Mail to the person designated by the customer to receive such notices of noncompliance, discontinue the provision of the services involved at any time thereafter. In the case of such discontinuance, all applicable charges, including termination charges, shall become due. If SDN does not discontinue the provision of the services involved on the date specified in the thirty (30) days notice, and the customer's noncompliance continues, nothing contained herein shall preclude SDN's right to discontinue the provision of the services involved without further notice to the noncomplying customer.

2.1.9 Notification of Service-Affecting Activities

SDN will provide the customer timely notification of service-affecting activities that may occur during the normal operation of its business. Such activities may include, but are not limited to, equipment or facilities additions, removals or rearrangements, routine preventive maintenance and major switching machine change-out. Generally, such activities are not individual customer service specific; they affect many customer services.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.1 Undertaking of SDN (Cont'd)

2.1.9 Notification of Service-Affecting Activities (Cont'd)

No specific advance notification period is applicable to all service activities. SDN will work cooperatively with the customer to determine the reasonable notification requirements. With some emergency or unplanned service-affecting conditions, such as an outage resulting from cable damage, notification to the customer may not be possible.

2.1.10 Coordination with Respect to Network Contingencies

SDN intends to work cooperatively with the customer to develop network contingency plans in order to maintain maximum network capability following natural or man-made disasters which affect telecommunications services, subject to the Restoration Priority requirements of Part 64 of the F.C.C.'s Rules. *

2.1.11 Provision and Ownership of Telephone Numbers

SDN reserves the reasonable right to assign, designate or change telephone numbers, any other call number designations associated with Centralized Equal Access Service, or the Exchange Telephone Company serving central office prefixes associated with such numbers, when necessary in the conduct of its business. Should it become necessary to make a change in such number(s), SDN will furnish to the customer six (6) months notice, by Certified U.S. Mail, of the effective date and an explanation of the reason(s) for such change(s). In the case of emergency conditions, however, e.g., a fire in a wire center, it may be necessary to change a telephone number without six (6) months notice in order to provide service to the customer.

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## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.2 Use

2.2.1 Interference or Impairment

(A) The characteristics and methods of operation of any circuits, facilities or equipment provided by other than SDN and associated with the facilities utilized to provide services under this tariff shall not interfere with or impair service over any facilities of SDN, its affiliated companies or, the Routing Exchange Carriers involved in its services, cause damage to their plant, impair the privacy of any communications carried over their facilities or create hazards to the employees of any of them or the public.

(B) Except as provided for equipment or systems subject to the F.C.C. Part 68 Rules in 47 C.F.R. Section 68.108, if such characteristics or methods of operation are not in accordance with (A) preceding, SDN will, where practicable, notify the customer that temporary discontinuance of the use of a service may be required; however, where prior notice is not practicable, nothing contained herein shall be deemed to preclude SDN's right to temporarily discontinue forthwith the use of a service if such action is reasonable under the circumstances. In case of such temporary discontinuance, the customer will be promptly notified and afforded the opportunity to correct the condition which gave rise to the temporary discontinuance. During such period of temporary discontinuance, credit allowance for service interruptions as set forth in 2.4.4 following is not applicable. *

2.2.2 Unlawful Use

The service provided under this tariff shall not be used for an unlawful purpose.

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## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer

2.3.1 Damages

The customer shall reimburse SDN for damages to SDN facilities utilized to provide services under this tariff caused by the negligence or willful act of the customer or resulting from improper use of SDN facilities, or due to malfunction of any facilities or equipment provided for or by the customer. SDN will, upon reimbursement for damages, cooperate with the customer in prosecuting a claim against the person causing such damage and the customer shall be subrogated to the right of recovery by SDN for the damages to the extent of such payment.

2.3.2 Ownership of Facilities and Theft

Facilities utilized by SDN to provide service under the provisions of this tariff may be leased by SDN from third parties. These facilities shall remain the property of the lessor, and under control of SDN. For purposes of the relationship between SDN and the customer, these facilities shall be considered to be the property of SDN. Such facilities shall be returned to SDN by the customer in as good a condition as reasonable wear will permit.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.3 Availability for Testing

The facilities provided under this tariff shall be available to SDN at times mutually agreed upon in order to permit SDN to make tests and adjustments appropriate for maintaining the services in satisfactory operating condition. Such tests and adjustments shall be completed within a reasonable time. No credit will be allowed for any interruptions involved during such tests and adjustments.

2.3.4 Balance

All signals for transmission over the facilities provided under this tariff shall be delivered by the customer balanced to ground.

2.3.5 Design of Customer Services

Subject to the provisions of 2.1.7 preceding, the customer shall be solely responsible, at its own expense, for the overall design of its services and for any redesigning or rearrangement of its services which may be required because of changes in facilities, operations or procedures of SDN, minimum protection criteria, or operating or maintenance characteristics of the facilities.

2.3.6 References to SDN

The customer may advise End Users that certain services are provided by SDN in connection with the service the customer furnishes to End Users; however, the customer shall not represent that SDN jointly participates in the customer's services.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.7 Claims and Demands for Damages

(A) With respect to claims of patent infringement made by third persons, the customer shall defend, indemnify, protect and save harmless SDN from and against all claims arising out of the combining with, or use in connection with, the services provided under this tariff, any circuit, apparatus, system or method provided by the customer.

(B) The customer shall defend, indemnify and save harmless SDN from and against suits, claims, losses or damages including punitive damages, attorneys' fees and court costs by third persons arising out of the construction, installation, operation, maintenance, or removal of the customer's circuits, facilities, or equipment connected to SDN's services provided under this tariff, including, without limitation, Workmen's Compensation claims, actions for infringement of copyright and/or unauthorized use of program material, libel and slander actions based on the content of communications transmitted over the customer's circuits, facilities or equipment, and proceedings to recover taxes, fines, or penalties for failure of the customer to obtain or maintain in effect any necessary certificates, permits, licenses, or other authority to acquire or operate the services provided under this tariff; provided, however, the foregoing indemnification shall not apply to suits, claims, and damages to recover damages for damage to property, death, or personal injury unless such suits, claims or demands are based on the tortious conduct of the customer, its officers, agents or employees.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.7 Claims and Demands for Damages (Cont'd)

(C) The customer shall defend, indemnify and save harmless SDN from and against any suits, claims, losses or damages, including punitive damages, attorneys' fees and court costs by the customer or third parties arising out of any act or omission of the customer in the course of using services provided under this tariff.

2.3.8 Coordination with Respect to Network Contingencies

The customer shall, in cooperation with SDN, coordinate in planning the actions to be taken to maintain maximum network capability following natural or man-made disasters which affect telecommunications services.

2.3.9 Jurisdictional Report Requirements

(A) Jurisdictional Reports

(1) When a customer orders Feature Group A or Feature Group B Switched Access Services, the customer shall state in its order the projected interstate percentage for interstate usage for each Feature Group A or Feature Group B Switched Access Service group ordered. The term group shall be construed to mean single lines or trunks as well. If the customer discontinues some but not all of the Feature Group A or Feature Group B Switched Access Services in a group, it shall provide the projected interstate percentage for such services which are remaining.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(1) (cont'd)

Pursuant to Federal Communications Commission Order in MCI Telecommunications Corp. (FCC 85-145), 57 RR 2d 1573 (April 16, 1985), Feature Group A and Feature Group B interstate usage is to be developed as though every call that enters a customer network at a point within the same state as that in which the called station (as designated by the called station telephone number) is situated is an intrastate communication and every call for which the point of entry is in a state other than that where the called station (as designated by the called station telephone number) is situated is an interstate communication. *

The projected interstate percentages will be used by SDN to apportion the usage between interstate and intrastate until a revised report is received as set forth in (5) following.

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## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(2) For trunk group arrangements where either the interstate or the intrastate charges are based on measured usage, the interstate Feature Group A or Feature Group B Switched Access Service(s) information reported as set forth in (1) preceding will be used to determine the charges as follows:

For all groups, the number of access minutes for a group will be multiplied by the projected interstate percentage to develop the interstate access minutes. The number of access minutes for the group minus the developed interstate access minutes for the group will be the developed intrastate access minutes.

(3) When a customer orders Feature Group D Switched Access Service(s), SDN where the jurisdiction can be determined from the call detail, will, unless the customer provides the projected interstate percentage for interstate usage for each end office group in its order, determine the projected interstate percentage as follows:

For originating access minutes, the projected interstate percentage will be developed on a monthly basis by end office using the measured Feature Group D access minutes and dividing the interstate originating access minutes (the

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(3) (Cont'd)

access minutes where the calling number is in one state and the called number is in another state) by the total originating access minutes when the call detail is adequate to determine the appropriate jurisdiction. For terminating access minutes, the data used by SDN to develop the projected interstate percentage for originating access minutes will be used to develop projected interstate percentage for such terminating access minutes. When originating call details are insufficient to determine the jurisdiction for the call, the customer shall supply the projected interstate percentage or authorize SDN to use the SDN developed percentage. This percentage shall be used by SDN as the interstate percentage for such calls. SDN will designate the number obtained by subtracting the projected interstate percentage for originating and terminating access minutes calculated by SDN from 100 (100 - calculated projected interstate percentage = intrastate percentage) as the projected intrastate percentage of use.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(4) Except where SDN measured access minutes are used as set forth in (3) preceding, the customer reported interstate percentage of use, as set forth in (1) or (3) preceding, will be used until the customer reports a different projected interstate percentage for an in-service trunk group. When the customer adds BHMC, lines or trunks to an existing trunk group, the customer shall furnish a projected interstate percentage that applies to the added BHMC, lines or trunks. When a customer discontinues BHMC, lines or trunks from an existing group, the customer shall furnish a projected interstate percentage for the remaining BHMC, lines or trunks in the trunk group. The revised report will serve as the basis for future billing and will be effective on the next bill date. No prorating or back billing will be done based on the report.

(5) Effective on the first of January, April, July and October of each year, the customer shall update the intrastate and interstate jurisdictional report. The customer shall forward to SDN, to be received no later than fifteen (15) calendar days after the first of each such month, a revised report showing the interstate and intrastate percentage of use for the past three (3) months ending the last day of December, March, June and September,

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.9 Jurisdictional Report Requirements (Cont'd)

(A) Jurisdictional Reports (Cont'd)

(5) (Cont'd)

respectively, for each service arranged for interstate use. Except as set forth in (3) preceding, where jurisdiction can be determined from the call detail, the revised report will serve as the basis for the next three (3) months billing and will be effective on the bill date in the following month (i.e., February, May, August and November) for that service. No prorating or backbilling will be done based on the report. If the customer does not supply the report, SDN will assume the percentages to be the same as that provided in the last quarterly report. For those cases in which a quarterly report has never been received from the customer, SDN will assume the percentages to be the same as that provided in the order for service as set forth in (1) preceding.

The customer shall keep sufficient detail from which the percentage of interstate use can be ascertained and upon request of SDN make the records available for inspection. Such a request will be initiated by SDN no more than once per year. The customer shall supply the data within thirty (30) calendar days of SDN's request.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.3 Obligations of the Customer (Cont'd)

2.3.10 Determination of Interstate Charges for Mixed Interstate and Intrastate Access Service

When mixed interstate and intrastate Access Service is provided, all charges will be prorated between interstate and intrastate. The percentages provided in the reports, as set forth in 2.3.9(A) preceding, will serve as the basis for calculating the charges. The percentages of an Access Service to be charged as interstate are applied in the following manner:

(A) Nonrecurring Charges

(1) For nonrecurring chargeable rate elements, multiply the percent interstate use times the quantity of chargeable elements times the stated tariff rate.

(B) Usage Sensitive Charges

For usage sensitive (i.e., access minutes and calls) chargeable rate elements, charges are calculated as follows:

(1) Multiply the percent interstate use times actual use (i.e., measured) times the stated tariff rate.

The interstate percentage will change as revised usage reports are submitted or a revised percentage is calculated as set forth in 2.3.9 preceding.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances

2.4.1 Payment of Rates, Charges and Deposits

(A) SDN will, in order to safeguard its interests, require a customer which has a proven history of late payments to SDN or does not have established credit, except for a customer which is a successor of a company which has established credit and has no history of late payments to SDN, to make a deposit prior to or at any time after the provision of a service to the customer to be held by SDN as a guarantee of the payment of rates and charges. Such deposit may not exceed the actual or estimated rates and charges for the service for a two-month period. The fact that a deposit has been made in no way relieves the customer from complying with SDN's regulations as to the prompt payment of bills. At such time as the provision of the service to the customer is terminated, the amount of the deposit will be credited to the customer's account and any credit balance which may remain will be refunded. At the option of SDN, such a deposit may be refunded or credited to the customer's account when the customer has established credit or after the customer has established a one-year prompt payment record at any time prior to the termination of the provision of the service to the customer. In the case of a cash deposit, for the period the deposit is held by SDN, the customer will receive interest at the same percentage rate as that set forth in (B)(2)(b)(I) or in (B)(2)(b)(II), whichever is lower. The interest rate will be applied for the number of days from the date the customer deposit is received by SDN to and including the date such deposit is credited to the customer's account or the date the deposit is

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(A) (Cont'd)

refunded by SDN. Should a deposit be credited to the customer's account, as indicated above, no interest will accrue on the deposit from the date such deposit is credited to the customer's account.

(B) SDN shall bill on a current basis all charges incurred by and credits due to the customer under this tariff attributable to services established or discontinued during the preceding billing period. In addition, SDN shall bill in advance, charges for all services to be provided during the ensuing billing period except for charges associated with service usage which will be billed in arrears. The bill day (i.e., the billing date of a bill for a customer for Access Service under this tariff), the period of service each bill covers and the payment date will be as follows:

(1) SDN will establish a bill day each month for each customer account. The bill will cover nonusage sensitive service charges for the ensuing billing period for which the bill is rendered, any known unbilled nonusage sensitive charges for prior periods and unbilled usage charges for the period after the last bill day through the current bill day. Any known unbilled usage charges for prior periods and any known unbilled adjustments will be applied to this bill. Payment for such bills is due as set forth in (2) following. If payment is not received by the payment date, as set forth in (2) following, in immediately available funds, a late payment penalty will apply as set forth in (2) following.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(2)(a) All bills dated, as set forth in (1) preceding, for service provided to the customer by SDN, are due thirty-one (31) days (payment date) after the bill day or by the next bill date (i.e., same date in the following month as the bill date) whichever is the shortest interval, except as provided herein, and are payable in immediately available funds. If the customer does not receive a bill at least twenty (20) days prior to the thirty-one (31) day payment due date, then the bill shall be considered delayed. When the bill has been delayed, upon request of the customer the due date will be extended by the number of days the bill was delayed. Such a request of the customer must be accompanied with proof of late bill receipt. If such payment date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Year's Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, the second Tuesday in November and a day when Washington's Birthday, Memorial Day or Columbus Day is legally observed) payment for such bills will be due from the customer as follows:

If such payment date falls on a Sunday or on a Holiday which is observed on a Monday, the payment date shall be the first non-Holiday date following such Sunday or Holiday. If

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(2)(a) (Cont'd)

such payment date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday or Friday, the payment date shall be the last non-Holiday day preceding such Saturday or Holiday.

(2)(b) Further, if any portion of the payment is received by SDN after the payment date as set forth in (a) preceding, or if any portion of the payment is received by SDN in funds which are not immediately available to SDN, then a late payment penalty shall be due to SDN. The late payment penalty shall be the portion of the payment not received by the payment date times a late factor. The late factor shall be the lesser of:

(I) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to SDN, or

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(2)(b) (Cont'd)

(II) 0.000590 per day, compounded daily for the number of days from the payment date to and including the date that the customer actually makes the payment to SDN.

(2)(c) In the event that a billing dispute concerning any charges billed to the customer by SDN is resolved in favor of SDN, any payments withheld pending settlement of the dispute shall be subject to the late payment penalty set forth in (b) preceding. If the customer disputes the bill on or before the payment date, and pays the undisputed amount on or before the payment date, any late payment charge for the disputed amount will not start until ten (10) days after the payment date.

(3) Billing Disputes Resolved in Favor of the Customer

If the customer pays the total billed amount and disputes all or part of the amount, SDN will refund any overpayment. In addition, SDN will pay to the customer penalty interest on the overpayment. When a claim is filed within ninety (90) days of the due date, the penalty interest period shall begin on the payment

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(B) (Cont'd)

(3) Billing Disputes Resolved in Favor of the Customer (Cont'd)

date. When a claim is filed more than ninety (90) days after the due date, the penalty interest period shall begin from the date of the claim or the date of overpayment, whichever is later.

The penalty interest period shall end on the date that SDN actually refunds the overpayment to the customer. The penalty interest rate shall be the lesser of:

(1) the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the first date to and including the last date of the period involved, or

(2) 0.000590 per day, compounded daily for the number of days from the first date to and including the last date of the period involved.

(C) Reserved for Future Use

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.1 Payment of Rates, Charges and Deposits (Cont'd)

(D) Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period set forth for services in other sections of this tariff will be prorated to the number of days or major fraction of days based on a thirty (30)-day month.

(E) SDN will, upon request, furnish within thirty (30) days of a request at no charge to the customer such detailed information as may reasonably be required for verification of any bill.

(F) When a rate as set forth in this tariff is shown to more than two (2) decimal places, charges will be determined using the rate shown. The resulting amount will then be rounded to the nearest penny (i.e., rounded to two (2) decimal places).

(G) When more than one (1) copy of a customer bill for services provided under the provisions of this tariff is furnished to the customer, an additional charge applies for each additional copy of the bill as set forth in 13.3.3(D)(3) following.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.2 Minimum Periods

The minimum periods for which services are provided and for which rates and charges are applicable is one (1) month, except as otherwise specified.

2.4.3 Cancellation of an Order for Service

Provisions for the cancellation of an order for service are set forth in 5.2.3(D) and 5.2.4 following.

2.4.4 Credit Allowance for Service Interruptions

A. General

A service is interrupted when it becomes unusable to the customer because of a failure of a facility component used to furnish service under this tariff or in the event that the protective controls applied by SDN result in the complete loss of service by the customer as set forth in 6.5.1 following. An interruption period starts when an inoperative service is reported to SDN, or when SDN becomes aware of the service interruption, and ends when the service is operative.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

B. When a Credit Allowance Applies

In case of an interruption to any service, allowance for the period of interruption, if not due to the negligence of the customer, shall be as follows:

(1) For Switched Access Service, no credit shall be allowed for an interruption of less than twenty-four (24) hours. The customer shall be credited for an interruption of twenty-four (24) hours or more at the rate of 1/30 of any applicable monthly rates for each period of twenty-four (24) hours or major fraction thereof that the interruption continues.

(2) The credit allowance(s) for an interruption or for a series of interruptions shall not exceed any monthly rate for the service interrupted in any one (1) monthly billing period.

(C) When a Credit Allowance Does Not Apply

No credit allowance will be made for:

(1) Interruptions caused by the negligence of the customer.

(2) Interruptions of a service due to the failure of equipment or systems provided by the customer or others.

(3) Interruptions of a service during any period in which SDN is not afforded access to the location where the service is terminated.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(C) When a Credit Allowance Does Not Apply (Cont'd)

(4) Interruptions of a service for maintenance purposes, to make rearrangements, or for the implementation of an order for a change in the service during the time that was negotiated with the customer. Thereafter, a credit allowance as set forth in (B) preceding applies.

(5) Reserved for Future Use

(6) Periods when the customer continues to use the service on an impaired basis.

(7) Periods of temporary discontinuance as set forth in 2.2.1(B) preceding.

(8) An interruption or a group of interruptions, resulting from a common cause, for amounts less than one dollar ($1.00).

(9) Periods of interruption as set forth in 13.3.1 following.

(10) Interruption of service caused by a customer's failure to provide notification to SDN of media stimulated mass calling events as set forth in 6.6.5 following.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.4 Credit Allowance for Service Interruptions (Cont'd)

(D) Use of an Alternative Service Provided by SDN

Should the customer elect to use an alternative service provided by SDN during the period that a service is interrupted, the customer must pay the tariffed rates and charges for the alternative service used.

(E) Temporary Surrender of a Service

In certain instances, the customer may be requested by SDN to surrender a service for purposes other than maintenance, testing or activity relating to a service order. If the customer consents, a credit allowance will be 1/1440 of the monthly rate for each period of thirty (30) minutes or fraction thereof that the service is surrendered. In no case will the credit allowance exceed the monthly rate for the service surrendered in any one (1) monthly billing period.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.5 Re-establishment of Service Following Fire, Flood or Other Occurrence

(A) Nonrecurring Charges Do Not Apply

Nonrecurring charges as set out in Section 5 following do not apply for the re-establishment of service following a fire, flood or other occurrence attributed to an Act of God provided that:

(1) The service is of the same type as was provided prior to the fire, flood or other occurrence.

(2) The service is for the same customer.

(3) The re-establishment of service begins within 60 days after Telephone Company service is available. (The 60 day period may be extended a period of not more than 30 days if the renovation of the original location affected is not practical within the 60 day time period).

2.4.6 Reserved for Future Use

2.4.7 Title or Ownership Rights

(A) The payment of rates and charges by customers for the services offered under the provisions of this tariff does not assign, confer or transfer title or ownership rights to proposals or facilities developed or utilized, respectively, by SDN in the provision of such services.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.4 Payment Arrangements and Credit Allowances (Cont'd)

2.4.8 Rating and Billing of Access Services Provided by SDN and Routing Exchange Carriers

SDN will handle rating and billing of Access Services under this tariff as follows.

(A) SDN will provide the Access Transport between SDN's central access tandem and Routing Exchange Carriers points of interconnection and bill the charges in accordance with its Centralized Equal Access Tariff. SDN's rate for the Transport element is as set forth in 6.8.1 following.

(B) The Routing Exchange Carrier will provide the Transport element between SDN points of interconnection and the end office switch(es) served by SDN's central access tandem and will bill the charges in accordance with its Access Service tariff. All other appropriate charges in the Routing Exchange Carrier tariff are applicable.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.5 Connections

2.5.1 General

Equipment and Systems (i.e., terminal equipment, multiline terminating systems and communications systems) may be connected with Access Service furnished by SDN where such connection is made in accordance with the provisions specified in Technical Reference Publication AS No. 1 and in 2.2.1 preceding. *

* Issued under authority of Special Permission No. 91-616 of the Federal Communications Commission.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions

Certain terms used herein are defined as follows:

Access Code

The term "Access Code" denotes a uniform five (5) or seven (7) digit code assigned by the Routing Exchange Carrier to an individual customer. The five (5) digit code has the form 10XXX, and the seven (7) digit code has the form 950-0XXX or 950-1XXX.

Access Minutes

The term "Access Minutes" denotes that usage of exchange facilities in interstate service for the purpose of calculating chargeable usage.

Access Tandem

The term "Access Tandem" denotes a switching system that provides a concentration and distribution function for originating and terminating traffic between end offices and a customer's point of termination.

Answer/Disconnect Supervision

The term "Answer/Disconnect Supervision" denotes the transmission of the switch trunk equipment supervisory signal (off-hook or on-hook) to the customer's point of termination as an indication that the called party has answered or disconnected.

Attenuation Distortion

The term "Attenuation Distortion" denotes the difference in loss at specified frequencies relative to the loss at 1004 Hz, unless otherwise specified.

Balance (100 Type) Test Line

The term "Balance (100 Type) Test Line" denotes an arrangement which provides for balance and noise testing.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Bit

The term "Bit" denotes the smallest unit of information in the binary system of notation.

Business Day

The term "Business Day" denotes the time of day that SDN is open for business. Business day hours are from 8:00 A.M. to 5:00 P.M. with an hour for lunch, Monday through Friday, resulting in a standard forty (40) hour work week.

Busy Hour Minutes of Capacity (BHMC)

The term "Busy Hour Minutes of Capacity (BHMC)" denotes the customer specified maximum amount of Switched Access Service access minutes the customer expects to be handled in an end office switch during any hour in an 8:00 A.M. to 11:00 P.M. period for the Feature Group ordered.

Call

The term "Call" denotes a customer attempt for which the complete address code (e.g., 0-, 911, or 7 digits) is provided to the serving dial tone office.

CCS

The term "CCS" denotes a hundred call seconds, which is a standard unit of traffic load that is equal to one hundred (100) seconds of usage or capacity of a group of servers (e.g., trunks).

Central Office

See End Office

Central Office Prefix

The term "Central Office Prefix" denotes the first three (3) digits (NXX) of the seven (7) digit telephone number assigned to a customer's Telephone Exchange Service when dialed on a local basis.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Channel(s)

The term "Channel(s)" denotes an electrical, radio or photonic communications path between two (2) or more points of termination.

Channelize

The term "Channelize" denotes the process of multiplexing-demultiplexing wider bandwidth or higher speed channels into narrower band-width or lower speed channels.

C-Message Noise

The term "C-Message Noise" denotes the frequency weighted average noise within an idle voice channel. The frequency weighting, called C-message, is used to simulate the frequency characteristic of the 500-type telephone set and the hearing of the average subscriber.

C-Notched Noise

The term "C-Notched Noise" denotes the C-message frequency weighted noise on a voice channel with a holding tone, which is removed at the measuring end through a notch (very narrow band) filter.

Communications System

The term "Communications System" denotes channels and other facilities which are capable of communications between terminal equipment provided by other than SDN.

Customer(s)

The term "Customer(s)" denotes any individual, partnership, association, joint-stock company, trust, corporation, or governmental entity or other entity which subscribes to the services offered under this tariff, including both Interexchange Carriers (ICs) and End Users.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Data Transmission (107 Type) Test Line

The term "Data Transmission (107 Type) Test Line" denotes an arrangement which provides for a connection to a signal source which provides test signals for one-way testing of data and voice transmission parameters.

Decibel

The term "Decibel" denotes a unit used to express relative difference in power, usually between acoustic or electric signals, equal to ten (10) times the common logarithm of the ratio of two (2) signal powers.

Decibel Reference Noise C-Message Weighting

The term "Decibel Reference Noise C-Message Weighting" denotes noise power measurements with C-Message weighting in decibels relative to a reference 1000 Hz tone of 90 dB below one (1) milliwatt.

Decibel Reference Noise C-Message Referenced to 0

The term "Decibel Reference Noise C-Message Referenced to 0" denotes noise power in "Decibel Reference Noise C-Message Weighting" referred to or measured at a zero transmission level point.

Detail Billing

The term "Detail Billing" denotes the listing of each message and/or rate element for which charges to a customer are due on a bill prepared by SDN.

Directory Assistance

The term "Directory Assistance" denotes the provision of Telephone numbers by a Telephone Company operator or mechanical device, when the directory assistance location is accessed by a customer by dialing NPA + 555-1212 or 555-1212.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Dual Tone Multifrequency Address Signaling

The term "Dual Tone Multifrequency Address Signaling" denotes a type of signaling that is an optional feature of Switched Access Feature Group A. It may be utilized when Feature Group A is being used in the terminating direction (from the point of termination with the customer to the local exchange end office). An office arranged for Dual Tone Multifrequency Signaling would expect to receive address signals from the customer in the form of Dual Tone Multifrequency signals.

Echo Control

The term "Echo Control" denotes the control of reflected signals in a transmission path.

Echo Path Loss

The term "Echo Path Loss" denotes the measure of reflected signal at a 4-wire point of termination without regard to the send and receive Transmission Level Point.

Echo Return Loss

The term "Echo Return Loss" denotes a frequency weighted measure of return loss over the middle of the voiceband (approximately five hundred (500) to twenty-five hundred (2500) Hz), where talker echo is most annoying.

Effective 2-Wire

The term "Effective 2-Wire" denotes a condition which permits the simultaneous transmission in both directions over a channel, but it is not possible to insure independent information transmission in both directions. Effective 2-wire channels may be terminated with 2-wire or 4-wire interfaces.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Effective 4-Wire

The term "Effective 4-Wire" denotes a condition which permits the simultaneous independent transmission of information in both directions over a channel. The method of implementing effective 4-wire transmission is at the discretion of SDN (physical, time domain, frequency-domain separation or echo cancellation techniques). Effective 4-wire channels may be terminated with a 2-wire interface at the end user's premises. However, when terminated 2-wire, simultaneous independent transmission cannot be supported because the 2-wire interface combines the transmission paths into a single path.

End Office

The term "End Office" denotes an Exchange Telephone Company switching system where Telephone Exchange Service customer station loops are terminated for purposes of interconnection to each other and to trunks. Included are Remote Switching Modules and Remote Switching Systems served by a Host Office in a different wire center.

End User

The term "End User" means any customer of an interstate or foreign telecommunications service that is not a carrier, except that a carrier other than a telephone company shall be deemed to be an "end user" when such carrier uses a telecommunications service for administrative purposes, and a person or entity that offers telecommunications service exclusively as a reseller shall be deemed to be an "end user" if all resale transmissions offered by such reseller originate on the premises of such reseller.

Entry Switch

See First Point of Switching.

Envelope Delay Distortion

The term "Envelope Delay Distortion" denotes a measure of the linearity of the phase versus frequency of a channel.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Equal Level Echo Path Loss

The term "Equal Level Echo Path Loss" (ELEPL) denotes the measure of Echo Path Loss (EPL) at a 4-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP) [ELEPL = EPL - TLP (send) + TLP (receive)].

Exchange

The term "Exchange" denotes a unit generally smaller than a Local Access and Transport Area, established by an Exchange Telephone Company for the administration of communications service in a specified area which usually embraces a city, town or village and its environs. It consists of one or more central offices together with the associated facilities used in furnishing communications service within that area. The exchange includes any Extended Area Service area that is an enlargement of an Exchange Telephone Company's exchange area to include nearby exchanges. One or more designated exchanges comprise a given Local Access and Transport Area.

Exchange Telephone Company

The term "Exchange Telephone Company" denotes a carrier that provides service within a telephone exchange, or within a connected system of telephone exchanges within the same exchange area operated to furnish to subscribers intercommunicating service of the character ordinarily furnished by a single exchange and which is covered by the exchange service.

Expected Measured Loss

The term "Expected Measured Loss" denotes a calculated loss which specifies the end-to-end 1004 Hz loss on a terminated test connection between two (2) readily accessible manual or remote test points. It is the sum of the inserted connection loss and test access loss including any test pads.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Field Identifier

The term "Field Identifier" denotes two (2) or four (4) characters that are used on service orders to convey specific instructions. Field Identifiers may or may not have associated data. Selected Field Identifiers are used in billing systems to generate nonrecurring charges.

First Come - First Served

The term "First Come - First Served" denotes a procedure followed when a shortage of facilities or equipment occurs, such that a service ordered cannot be immediately provided. The orders delayed by the shortage of facilities will be prioritized according to the sequence in which they were received. That is, when facilities or equipment become available, the first order received will be the first order processed.

First Point of Switching

The term "First Point of Switching" denotes the first Exchange Telephone Company designated location at which switching occurs on the terminating path of a call proceeding from the customer's point of termination to the terminating end office and, at the same time, the last Exchange Telephone Company designated location at which switching occurs on the originating path of a call proceeding from the originating end office to the customer's point of termination.

Frequency Shift

The term "Frequency Shift" denotes the change in the frequency of a tone as it is transmitted over a channel.

Grandfathered

The term "Grandfathered" denotes Terminal Equipment, Multiline Terminating Systems and Protective Circuitry directly connected to the facilities utilized to provide services under the provisions of this tariff, and which are considered Grandfathered under Part 68 of the F.C.C.'s Rules and Regulations. *

* Issued under authority of Special Permission No. 91-616 of the Federal Communications Commission.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Host Office

The term "Host Office" denotes an electronic switching system which provides call processing capabilities for one or more Remote Switching Modules or Remote Switching Systems.

Immediately Available Funds

The term "Immediately Available Funds" denotes a corporate or personal check drawn on a bank account and funds which are available for use by the receiving party on the same day on which they are received and include U.S. Federal Reserve bank wire transfers, U.S. Federal Reserve notes (paper cash), U.S. coins, U.S. Postal Money Orders and New York Certificates of Deposit.

Impedance Balance

The term "Impedance Balance" denotes the method of expressing Echo Return Loss and Singing Return Loss at a 4-wire interface whereby the gains and/or loss of the 4-wire portion of the transmission path, including the hybrid, are not included in the specification.

Impulse Noise

The term "Impulse Noise" denotes any momentary occurrence of the noise of a channel over a specified level threshold. It is evaluated by counting the number of occurrences which exceed the threshold.

Individual Case Basis

The term "Individual Case Basis" denotes a condition in which the regulations, if applicable, rates and charges for an offering under the provisions of this tariff are developed and tariffed based on the circumstances in each case.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Inserted Connection Loss

The term "Inserted Connection Loss" denotes the 1004 Hz power difference (in dB) between the maximum power available at the originating end and the actual power reaching the terminating end through the inserted connection.

Interexchange Carrier (IC) or Interexchange Common Carrier

The term "Interexchange Carrier" (IC) or "Interexchange Common Carrier" denotes any individual, partnership, association, joint-stock company, trust, governmental entity or corporation engaged for hire in interstate or foreign communications by fiber optics, wire or radio, between two (2) or more exchanges.

Intermodulation Distortion

The term "Intermodulation Distortion" denotes a measure of the nonlinearity of a channel. It is measured using four (4) tones, and evaluating the ratios (in dB) of the transmitted composite four-tone signal power to the second-order products of the tones (R2), and the third-order products of the tones (R3).

Interstate Communications

The term "Interstate Communications" denotes both interstate and foreign communications.

Intrastate Communications

The term "Intrastate Communications" denotes any communications within a state subject to oversight by a state regulatory commission as provided by the laws of the state involved.

Line Side Connection

The term "Line Side Connection" denotes a connection of a transmission path to the line side of a local exchange switching system.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Local Access and Transport Area

The term "Local Access and Transport Area" denotes a geographic area established for the provision and administration of communications service. It encompasses one or more designated exchanges, which are grouped to serve common social, economic and other purposes.

Local Tandem Switch

The term "Local Tandem Switch" denotes a local Telephone Company switching unit by which local or access telephonic communications are switched to and from an End Office switch.

Loop Around Test Line

The term "Loop Around Test Line" denotes an arrangement to provide a means to make certain two-way transmission tests on a manual basis. This arrangement has two terminations, each reached by means of separate telephone numbers and does not require any specific customer equipment. Equipment subject to this test arrangement is at the discretion of the customer.

Loss Deviation

The term "Loss Deviation" denotes the variation of the actual loss from the designed value.

Major Fraction Thereof

The term "Major Fraction Thereof" is any period of time in excess of one half (1/2) of the stated amount of time. As an example, in considering a period of twenty-four (24) hours, a major fraction thereof would be any period of time in excess of twelve (12) hours exactly. Therefore, if a given service is interrupted for a period of thirty-six (36) hours and fifteen (15) minutes, the customer would be given credit allowance for two (2) twenty-four (24) hour periods for a total of forty-eight (48) hours.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Message

The term "Message" denotes a "call" as defined preceding.

Milliwatt (102 Type) Test Line

The term "Milliwatt (102 Type) Test Line" denotes an arrangement which provides a 1004 Hz tone at 0 dBm0 for one-way transmission measurements towards the customer's point of interconnection from an Exchange Carrier end office.

Network Control Signaling

The term "Network Control Signaling" denotes the transmission of signals used in the telecommunications system which perform functions such as supervision (control, status, and charge signals), address signaling (e.g., dialing), calling and called number identifications, rate of flow, service selection error control and audible tone signals (call progress signals indicating re-order or busy conditions, alerting, coin denominations, coin collect and coin return tones) to control the operation of the telecommunications system.

Nonsynchronous Test Line

The term "Nonsynchronous Test Line" denotes an arrangement which provides operational tests which are not as complete as those provided by the synchronous test lines, but can be made more rapidly.

North American Numbering Plan

The term "North American Numbering Plan" denotes a three-digit area code (Numbering Plan Area) and a seven-digit telephone number made up of a three-digit Central Office code plus a four-digit station number.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Off-hook

The term "Off-hook" denotes the active condition of Access or a Telephone Exchange Service line.

On-hook

The term "On-hook" denotes the idle condition of Access or a Telephone Exchange Service line.

Open Circuit Test Line

The term "Open Circuit Test Line" denotes an arrangement which provides an ac open circuit termination of a trunk by means of an inductor.

Originating Direction

The term "Originating Direction" denotes the use of Access Service for the origination of calls from an End User Premises to a Customer point of termination.

Pay Telephone

The term "Pay Telephone" denotes instruments and related facilities that are available to the general public for public convenience and necessity, including public and semi-public telephones, and coinless telephones.

Phase Jitter

The term "Phase Jitter" denotes the unwanted phase variations of a signal.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Point of Interconnection

The term "Point of Interconnection" denotes the point of connection between the facilities of an Exchange Telephone Company and the facilities of SDN.

Point of Termination

The term "Point of Termination" denotes the demarcation point or network interface at the SDN premises at which SDN's responsibility for the provision of Centralized Equal Access Service ends.

Remote Switching Modules and/or Remote Switching Systems

The terms "Remote Switching Modules" and/or "Remote Switching Systems" denotes small, remotely controlled electronic end office switches which obtain their call processing capability from an electronic-type host office. The Remote Switching Modules and/or Remote Switching Systems cannot accommodate direct trunks to a customer.

Return Loss

The terms "Return Loss" denotes a measure of the similarity between the two (2) impedances at the junction of two (2) transmission paths. The higher the return loss, the higher the similarity.

Registered Equipment

The term "Registered Equipment" denotes the customer's premises equipment which complies wi and has been approved within the Registration Provisions of Part 68 of the F.C.C.'s Rules and * Regulations.

* Issued under authority of Special Permission No. 91-616 of the Federal Communications Commission.

## CENTRALIZED EQUAL ACCESS SERVICE

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Routing Exchange Carrier

The term "Routing Exchange Carrier" denotes the Exchange Telephone Company in whose exchange a customer's end users' end office is located and which routes calls to and from SDN's facilities.

Service Access Code

The term "Service Access Code" denotes a three digit code in the NPA format which is used as the first three digits of a ten digit address and which is assigned for special network uses. Whereas NPA codes are normally used for identifying specific geographical areas, certain Service Access Codes have been allocated in the North American Numbering Plan to identify generic services or to provide access capability. Examples of Service Access Codes include the 8XX and 9XX codes.

Seven Digit Manual Test Line

The term "Seven Digit Manual Test Line" denotes an arrangement which allows the customer to select balance, milliwatt and synchronous test lines by manually dialing a seven (7) digit number of the associated access connection.

Shortage of Facilities or Equipment

The term "Shortage of Facilities or Equipment" denotes a condition which occurs when SDN does not have appropriate cable, switching capacity, bridging or multiplexing equipment, etc., necessary to provide the Access Service requested by the customer.

Short Circuit Test Line

The term "Short Circuit Test Line" denotes an arrangement which provides for an ac short circuit termination of a trunk by means of a capacitor of at least four (4) microfarads.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Signal-to-C-Notched Noise Ratio

The term "Signal-to-C-Notched Noise Ratio" denotes the ratio in dB of a test signal to the corresponding C-Notched Noise.

Singing Return Loss

The term "Singing Return Loss" denotes the frequency weighted measure of return loss at the edges of the voiceband (200 to 500 Hz and 2500 to 3200 Hz), where singing (instability) problems are most likely to occur.

Subtending End Office of an Access Tandem

The term "Subtending End Office of an Access Tandem" denotes an end office that has final trunk group routing through that tandem.

Synchronous Test Line

The term "Synchronous Test Line" denotes an arrangement which performs marginal operational tests of supervisory and ring-tripping functions.

Terminating Direction

The term "Terminating Direction" denotes the use of Access Service for the completion of calls from a Customer's point of termination to an End User Premises.

Transmission Measuring (105 Type) Test Line/Responder

The term "Transmission Measuring (105 Type) Test Line/Responder" denotes an arrangement which provides far-end access to a responder and permits two-way loss and noise measurements to be made on trunks from a near end office.

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

Transmission Path

The term "Transmission Path" denotes a path capable of transmitting signals within the range of the service offering, e.g., a voice grade transmission path is capable of transmitting voice frequencies within the approximate range of three hundred (300) to three thousand (3000) Hz. A transmission path is comprised of physical or derived channels consisting of any form or configuration of facilities plant typically used in the telecommunications industry.

Trunk

The term "Trunk" denotes a transmission path connecting two (2) switching systems in a network, used in the establishment of an end-to-end connection.

Trunk Group

The term "Trunk Group" denotes a set of trunks which are traffic engineered as a unit for the establishment of connections between switching systems in which all of the communications paths are interchangeable.

Trunk Side Connection

The term "Trunk Side Connection" denotes the connection of a transmission path to the trunk side of a switching system.

Two-Wire to Four-Wire Conversion

The term "Two-Wire to Four-Wire Conversion" denotes an arrangement which converts a four-wire transmission path to a two-wire transmission path to allow a four-wire facility to terminate in a two-wire entity (e.g., a central office switch).

**CENTRALIZED EQUAL ACCESS SERVICE**

2. General Regulations (Cont'd)

2.6 Definitions (Cont'd)

WATS Serving Office

The term "WATS Serving Office" denotes the wire center, as designated by SDN or an Exchange Telephone Company, where switching, screening, and/or recording functions are performed in connection with the closed end of WATS or WATS-type services.

Wire Center

The term "Wire Center" denotes a building in which one or more central offices, used for the provision of Telephone Exchange Services, are located.

**CENTRALIZED EQUAL ACCESS SERVICE**

3.

RESERVED FOR FUTURE USE

**CENTRALIZED EQUAL ACCESS SERVICE**

4.

RESERVED FOR FUTURE USE

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service

5.1 General

This section sets forth the regulations and other related charges for Access Orders for Access Service. These charges are in addition to other applicable charges as set forth in other sections of this Tariff.

An Access Order is an order to provide the customer with Access Service, access related services, or to provide changes to existing services.

5.1.1 Ordering Conditions

Access Service may be ordered from SDN. A customer may order any number of services of the same type (e.g., Feature Group, Interface Group, etc.), between the customer's point of termination at SDN's central access tandem and a Routing Exchange Carrier's point of interconnection. Access Service between a customer's premises and the customer's point of termination at the SDN access tandem is solely the responsibility of the customer and must be provided by the customer or ordered from another carrier. Access Service from the Routing Exchange Carrier's point of interconnection to an end office must be ordered from a Routing Exchange Carrier or other Exchange Telephone Company. SDN will determine the Transport facilities to be provided between a Routing Exchange Carrier's point of interconnection and SDN's central access tandem on the basis of the capacity ordered.

The customer shall supply all the necessary information to provide service, (e.g., customer name, customer address, customer contact and facility interface, etc.)

Orders for Access Service between SDN's central access tandem and the Routing Exchange Carrier's point of interconnection shall be in BHMCs, except for FGA which shall be set forth in lines.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.1 General (Cont'd)

5.1.2 Provision of Other Services

(A) Testing Service, Additional Labor, Restoration Priority, and other services offered under the provisions of this tariff shall be ordered with an Access Order, miscellaneous service order or as set forth in (B) following. The rates and charges for these services, as set forth in other sections of this tariff, will apply in addition to the ordering charges set forth in this section and the rates and charges for the Access Service with which they are associated.

(B) With the agreement of SDN, the items listed in (A) preceding may subsequently be added to the order at any time, up to and including the service date for the Access Service. When added subsequently, charges for a design change as set forth in 5.2.2(C) following will apply when an engineering review is required.

(C) Additional Engineering is not an ordering option, but will be applied to an Access Order when SDN determines Additional Engineering is necessary to accommodate a customer request. When Additional Engineering is required, the customer will be so notified and will be furnished with a written statement setting forth the justification for the Additional Engineering as well as an estimate of the charges. If the customer agrees to the Additional Engineering, a firm order will be established. If the customer does not want the service or facilities after being notified that Additional Engineering is required, the order will be withdrawn and no charges will apply. Once a firm order has been established, the total charge to the customer for the Additional Engineering may not exceed the estimated amount by more than 10%.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.1 General (Cont'd)

5.1.2 Provision of Other Services (Cont'd)

(C) (Cont'd)

The regulations, rates and charges for Additional Engineering are as set forth in 13.1 following and are in addition to the regulations, rates and charges specified in this section.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order

An Access Order is used by SDN to provide to a customer Access Service as follows:

- Switched Access Services as set forth in Section 6. following.

- Other Services as set forth in Section 5.1.2 preceding.

5.2.1 Access Order Information

When placing an order for Access Service, the customer shall provide, at a minimum, the following information:

(A) When placing an order for Feature Group A Access Service, the customer shall provide the following information:

- The number of lines or trunks needed to carry traffic from the end office of a Routing Exchange Carrier set forth in Section 9. following to SDN's central access tandem.

- The end office of the Routing Exchange Carrier listed in Section 9. following where FGA calls will originate.

- Optional Features, as set out in Section 6.1.3(B) and (C) following.

- Whether the Off-Hook Supervisory Signaling is provided by the customer's equipment before the called party answers, or is forwarded by the customer's equipment when the called party answers.

- A projected percentage of interstate use (PIU) as set forth in 2.3.9 preceding.

- The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGA communications are transported to another state.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.1 Access Order Information (Cont'd)

(B) When placing an order for Feature Group B Access Service, the customer shall provide the following information.

- The number of busy hour minutes of capacity (BHMC) needed to carry traffic from the end office of a Routing Exchange Carrier set forth in Section 9. following to SDN's central access tandem by type of BHMC. This information is used to determine the number of transmission paths as set forth in 6.5.5 following.

- Optional Features as set out in Section 6.1.3(B) and (C) following.

- A projected percentage of interstate use (PIU) as set forth in 2.3.9 preceding.

- The Interexchange Carrier to which the service is connected or, in the alternative, specify the means by which the FGB access communications are transported to another state.

- The access code dialing arrangement (i.e., a uniform access code of 950-1XXX or 950-0XXX or an Abbreviated Dialing Arrangement (ADA) access code of N or NX).

(C) When placing an order for Feature Group D Access Service, the customer shall provide the following information:

- The number of busy hour minutes of capacity (BHMC) needed to carry traffic from the end office of a Routing Exchange Carrier set forth in Section 9. following to SDN's central access tandem by type of BHMC. This information is used to determine the number of transmission paths as set forth in 6.5.5 following.

- Optional Features as set out in Section 6.1.3(B) and (C) following.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.1 Access Order Information (Cont'd)

(C) (Cont'd)

- Interim NXX Translation options of the type specified in (D) following.

(D) For Interim NXX Translation, the customer must place an order with SDN. When the order is placed with SDN, the customer must also provide a copy of the order to the Exchange Telephone Companies subtending the SDN network. The minimum territory for which SDN will provide Interim NXX Translation is all the appropriately equipped offices of the Routing Exchange Carriers set forth in Section 9. following for which the customer has ordered Interim NXX Translation. Additionally, when new NXX(s) are to be opened up, or when such existing NXX(s) are to be deleted, coincident with the provision of Interim NXX Translation, the customer shall provide such information when placing the order for Interim NXX Translation. For additions and/or deletions of NXX(s) at any other time, the customer shall place an order for such additions and/or deletions. The NXX codes are assigned to specific customers in conformance with the North American Numbering Plan (NANP). NXX code assignment(s) will be made by the Bellcore NANP Coordinator. SDN will use the NXX code to identify the customer to whose point of termination the traffic is to be delivered. It is then the responsibility of the customer to do any further translation the customer deems necessary to route the call. Customer assigned NXX codes which have not been ordered will be blocked.

(E) The customer must supply a copy of the access order to each Routing Exchange Carrier involved in providing the access service.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.1 Access Order Information (Cont'd)

(F) The BHMC may be determined by the customer in the following manner. For each average business day (i.e., 8 A.M. to 11 P.M., Monday through Friday, excluding national holidays), the customer shall determine the highest number of minutes of use for a single hour (e.g., 55 minutes in the 10-11 A.M. hour). The customer shall, for the same hour period (i.e., busy hour) for each of twenty (20) consecutive business days, pick the twenty (20) consecutive business days in a calendar year which add up to the largest number of minutes of use. Both originating and terminating minutes shall be included. The customer shall then determine the average busy hour minutes of capacity (i.e., BHMC) by dividing the largest number of minutes of use figure for the same hour period for the consecutive twenty (20) business day period by twenty (20). This computation shall be performed for each end office the customer wishes to serve. These determinations thus establish the forecasted BHMC for each end office.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Service Date Intervals

Access Service is provided with one of the following Service Date Intervals:

- Standard Interval
- Negotiated Interval

Whether the customer's service is subject to standard or negotiated intervals, SDN will provide service interval tables and any associated relevant information to all customers within a reasonable time after a request.

To the extent the Access Service can be made available with reasonable effort, SDN will provide the Access Service in accordance with the customer's requested interval, subject to the following conditions.

(A) Standard Interval

The day upon which the customer has provided to SDN a firm commitment for the service and sufficient information to allow for the processing of the Access Order is the Application Date. On the Application Date, SDN will establish a Service Date. The Service Date is the date on which service is to be made available to the customer. The time required to provision the service (i.e., the interval between the Application Date and the Service Date) is known as the service interval. Standard interval tables and associated information will be provided to customers upon request within a reasonable period of time.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Service Date Intervals (Cont'd)

(A) Standard Interval (Cont'd)

Access Services provided in a Standard Interval will be installed during normally scheduled work hours. If a customer requests that installation be done outside of scheduled work hours, and SDN agrees to this request, the customer will be subject to applicable Additional Labor Charges as set forth in 13.2.6(A) following.

(B) Negotiated Interval

The customer may request a service date other than that established pursuant to the standard order service interval guidelines, and SDN, where possible, will establish a negotiated order service date in accordance with such request.

SDN will negotiate a service date interval with the customer when:

(1) There is no Standard Interval for the service, or

(2) The customer requests a service date before or beyond the applicable Standard Interval service date, or

(3) The quantity of Access Services ordered exceeds the quantities specified in the Standard Intervals.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.2 Access Order Service Date Intervals (Cont'd)

(B) Negotiated Interval (Cont'd)

(3) (Cont'd)

SDN will offer a service date based on the type and quantity of Access Services the customer has requested. The Negotiated Interval may not exceed by more than six (6) months the Standard Interval Service date, or, when there is no Standard Interval, the SDN offered service date. All services for which rates are applied on an individual case basis are provided with a Negotiated Interval.

5.2.3 Access Order Changes and Modifications

(A) Access Order Charge

The Access Order Charge is applied to all customer requests for new Access Service. In addition, the Access Order Charge is applicable to customer requests for additions, changes or rearrangements to existing Access Service with the following exceptions: the Access order Charge does not apply:

- When a Service Date Change Charge is applicable.
- When a Design Change Charge is applicable.
- When a change to a pending order does not result in the cancellation of the pending order and the issuance of a new order.
- When Interim NXX Translation is ordered.
- When a Miscellaneous Service Order Charge is applicable.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Access Order Changes and Modifications (Cont'd)

(A) Access Order Charge (Cont'd)

The Access Order Charge will be applied on a per order basis to each order received by SDN or a copy of an order received by SDN pursuant to 5.2 preceding and is in addition to other applicable charges as set forth in this and other sections of this tariff.

| | Rate |
|---|---|
| Access order Charge, per order | $89.00 |

(B) Miscellaneous Service Order Charge

A Miscellaneous Service Order Charge, applies to any service, or combination of services ordered simultaneously from Section 13 of this tariff for which a service order is not already pending. The Miscellaneous Service Order Charge is an administrative charge designed to compensate for the expenses associated with service order issuance.

The charge always applies to the following services since a pending service order would not exist:

- Overtime Repair (13.2.2),
- Stand-by Repair (13.2.3),
- Testing and Maintenance with Other Telephone Companies other than when in conjunction with Acceptance Testing (13.2.4) and 13.3.2(D)(1).
- Other Labor (13.2.5),
- Maintenance of Service (13.3.1).

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Access Order Changes and Modifications (Cont'd)

(B) Miscellaneous Service Order Charge (Cont'd)

The charge does not apply to the following services since there would exist a pending service order:

- Additional Engineering (13.1),
- Overtime Installation (13.2.1),
- Stand-by Acceptance Testing (13.2.3),
- Testing and Maintenance with Other Telephone Companies when in conjunction with Acceptance Testing (13.2.4),
- Additional Cooperative Acceptance Testing (13.3.2(A)(1).

| | Rate |
|---|---|
| Miscellaneous Service Order Charge, per order | $30.00 |

An Access Order may be modified by the customer prior to the service date as set forth following. One or more of the following charges will apply when such modifications are undertaken. When modifications are undertaken, the service date will be changed if necessary to complete the requested modifications with the normal work force assigned to complete such an order in normal work hours. All charges for Access Order modifications will apply on a per occurrence basis.

Any increase in the number of busy hour minutes of capacity will be treated as a new Access Order (for the increased amount only).

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Access Order Changes and Modifications (Cont'd)

(C) Service Date Change Charge

Access Order service dates may be changed, but the new service date may not exceed the original service date by more than thirty (30) calendar days. When, for any reason, the customer indicates that service cannot be accepted for a period not to exceed thirty (30) calendar days, and SDN accordingly delays the start of service, a Service Date Change Charge will apply. If the customer requested service date is more than thirty (30) calendar days after the original service date, the order will be cancelled by SDN and reissued with the appropriate cancellation charges applied unless the customer indicates that billing for the service is to commence as set forth in 5.2.4(A) following. If SDN determines it can accommodate the customer's request without delaying service dates for orders of other customers, a new service date may be established that is prior to the original standard or negotiated interval service date.

If the service date is changed to an earlier date, and SDN determines additional labor or extraordinary costs are necessary to meet the earlier service date requested by the customer, the customer will be notified by SDN that Expedited Order Charges as set forth in (F) following apply. Such charges will apply in addition to the Service Date Change Charge.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Access Order Changes and Modifications (Cont'd)

(C) Service Date Change Charge (Cont'd)

A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The applicable charge is:

| | Charge |
|---|---|
| Service Date Change Charge, per order | $30.00 |

(D) Partial Cancellation Charge

Any decrease in the number of ordered busy hour minutes of capacity will be treated as a partial cancellation and the charges as set forth in 5.2.4(B) following will apply.

(E) Design Change Charge

The customer may request a design change to the service ordered. A design change is any change to an Access Order which requires engineering review. An engineering review is a review by SDN personnel, of the service ordered and the requested changes to determine what changes in the design, if any, are necessary to meet the changes requested by the customer. Design changes include such things as the addition or deletion of optional features or functions or a change in the type of channel interface, or type of Interface Group technical specifications package.

Design changes do not include a change of customer point of termination, end office switch, or Feature Group type. Changes of this nature will require the issuance of a new order and the cancellation of the original order with appropriate cancellation charges applied.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Access Order Changes and Modifications (Cont'd)

(E) Design Change Charge (Cont'd)

SDN will conduct an engineering review of the requested change, notify the customer whether the change is a design change, if it can be accommodated and if a new service date is required. If the customer authorizes SDN to proceed with the design change, a Design Change Charge will apply in addition to the charge for Additional Engineering as set forth in 13.1 following. If a change of a service date is required, the Service Date Change Charge as set forth in (C) preceding will also apply. The Design Change Charge will apply on a per order per occurrence basis, for each order requiring a design change. The applicable charge is:

| | Rate |
|---|---|
| Design Change Charge, per order | $30.00 |

(F) Expedited Order Charge

When placing an Access Order, a customer may request a service date that is prior to the standard interval service date. A customer may also request an earlier service date on a pending standard or negotiated interval Access Order. If SDN determines that service can be provided on the requested date and that additional labor costs are required to meet the requested service date, the customer will be notified and will be provided with an estimate of the

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.3 Access Order Changes and Modifications (Cont'd)

(E) Expedited Order Charge (Cont'd)

additional charges involved. Charges will be billed at actual cost, not to exceed 10 percent over estimated charges. Such additional charges will be determined and billed to the customer as follows:

To calculate the additional labor charges, SDN will, upon authorization from the customer to incur the additional labor charges, keep track of the additional labor hours used to meet the request of the customer and will bill the customer at the applicable Additional Labor charges as set forth in 13.2.6(A) following.

When the request for expediting occurs subsequent to the issuance of the Access Order, a Service Date Change Charge as set forth in (C) preceding also applies.

5.2.4 Cancellation of a Switched Access Order

(A) A customer may cancel a Switched Access Order for the installation of service on any date prior to the service date. The cancellation date is the date SDN receives written or verbal notice from the customer that the order is to be cancelled. The verbal notice must be followed by written confirmation within ten (10) days. If a customer is unable to accept Access Service within thirty (30) calendar days of the original service date , the customer has the choice of the following options:

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.4 Cancellation of a Switched Access Order (Cont'd)

(A) (Cont'd)

- The Switched Access Order shall be cancelled and charges set forth in (B) following will apply, or

- Billing for the service will commence.

If no cancellation request is received within the thirty (30) calendar days of the original service date, billing for the service will commence.

In such instances, the cancellation date or the billing date, depending on which option is selected by the customer, shall be the thirty-first (31st) day beyond the original service date of the Access Order.

(B) When a customer cancels a Switched Access Order for the installation of service, a Cancellation Charge will apply as follows:

(1) Installation of Switched Access Service facilities is considered to have started when SDN incurs any cost in connection therewith or in preparation thereof which would not otherwise have been incurred.

(2) Where the customer cancels a Switched Access Order prior to the start of installation of access facilities, no charges shall apply.

(3) Where installation of access facilities has been started prior to the cancellation, the charges specified in (a) or (b) following, whichever is lower, shall apply.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.4 Cancellation of an Access Order (Cont'd)

(B) (Cont'd)

(3) (Cont'd)

(a) A charge equal to the costs incurred in such installation, less estimated net salvage. Such charge is determined as detailed in (4) following.

(b) The charge for the minimum period of Access Service ordered by the customer.

(4) Charges applicable as specified in (3)(a) preceding include the non-recoverable cost of equipment and material ordered, provided or used, plus the non-recoverable cost of installation and removal including the costs of engineering, labor, supervision, transportation, rights-of-way and other associated costs.

(C) When a customer cancels an order for the discontinuance of service, no charges apply for the cancellation.

(D) If SDN misses a service date by more than thirty (30) days due to circumstances over which it has direct control (excluding, e.g., acts of God, governmental requirements, work stoppages and civil commotions), the customer may cancel the Access Order without incurring cancellation charges.

5.2.5 Selection of Facilities for Access Orders

For all Access Orders, the option to request a specific transmission path is not provided.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.2 Access Order (Cont'd)

5.2.6 WATS or WATS-Type Services

WATS or WATS-Type Access Services may be ordered for connection with FGA, FGB or FGD Access Services at SDN's central access tandem for the provision of WATS or WATS-Type Services, and may be ordered separately by a customer other than the customer who orders the FGA, FGB or FGD Access Service.

In addition to the ordering information required for Switched Access Service listed in Sections 5.2.1(A)(B)(C) and (D) above, the customer shall specify:

- The type of line (i.e., two-wire or four-wire);
- The type of calling (i.e., originating, terminating or two-way); and
- The type of supervisory signalling.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.3 Available Inventory

Available inventory is limited and does not include facilities used to provide working services or facilities previously ordered, reserved for pending orders or held as maintenance spare. Available inventory is the SDN facilities (e.g., loop pairs, interoffice pairs, carrier channels, circuit equipment, trunk equipment, and switching equipment) in place, when the customer places an order, or under construction to meet future customer orders. The available date for facilities under construction is the date such facility construction is completed, including line up and testing, and made available to meet customer needs. SDN will make every reasonable effort to maintain sufficient available inventory to provide Access Transport and Centralized Equal Access Service in accordance with customers' requested service date intervals. To the extent that service can be provided, Access Orders will be satisfied from available inventory.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.4 Access Orders for Services Provided by SDN and Exchange Telephone Companies

(A) Access Services provided by SDN and Exchange Telephone Companies are services where one end of the Transport element is in the operating territory of an Exchange Telephone Company and SDN provides a portion of the Transport element between that Exchange Telephone Company and another point on the SDN network, or where the Interim NXX Translation Service is provided by SDN. SDN will coordinate and arrange for the provision of the services ordered. In addition to the Access Transport rate billed by SDN as set forth in Section 6.8.1 following, each Exchange Telephone Company will provide the portion of the Transport element in its operating territory and will bill its charges in accordance with its tariff.

(1) When Switched Access Services are ordered to SDN's central access tandem, the customer will place the order with SDN. The customer must also supply a copy of the order to each Exchange Telephone Company involved in providing the service and subtending SDN's central access tandem.

(2) For Feature Group A and Feature B Switched Access Services, the customer must place the order with SDN. The customer must also supply a copy of the order to each Exchange Telephone Company involved in providing the service and subtending SDN's central access tandem.

(3) When Feature Group D Switched Access Services are ordered from SDN, the customer must copy the order to the Exchange Telephone Company in whose territory the end office is located.

**CENTRALIZED EQUAL ACCESS SERVICE**

5. Ordering Options for Switched Access Service (Cont'd)

5.4 Access Orders for Services Provided by SDN and Exchange Telephone Companies

(A) (Cont'd)

(4) For Access Services ordered as set forth in (1), (2) and (3) preceding, the customer must also supply a copy of the order to the Exchange Telephone Company in whose territory a customer is located and any other Exchange Telephone Company involved in providing the access service.

(5) For initiation, additions, changes or deletions to the Interim NXX Translation code(s), the customer must place an order with SDN. The customer must also provide a copy of the order to the Exchange Telephone Companies subtending the SDN Interim NXX Translation office.

When Feature Group D is ordered with the Interim NXX Translation optional feature, the customer shall specify the Service Access Code(s) (e.g., 8XX or 9XX) and their associated NXX Code(s) to be translated. The initial and subsequent orders to add, change, or delete Interim NXX Translation codes shall be placed separately or in combination with orders to change Feature Group D Switched Access BHMC. Customer assigned NXX codes which have not been ordered will be blocked.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service

6.1 General

Switched Access Service, when combined with the services offered by Exchange Telephone Companies, is available to customers. SDN provides a communications path between the transmission facilities of a Routing Exchange Carrier listed in Section 9 following and SDN's central access tandem where the customer's traffic is switched to originate or terminate its communications. It also provides for the switching facilities at SDN's central access tandem. SDN's central access tandem is SDN's switching system located at Sioux Falls, South Dakota which provides a concentration and distribution function for originating and terminating traffic between the end offices of Routing Exchange Carriers listed in Section 9. following and a customer's point of termination. The customer's point of termination is the demarcation point or network interface between SDN's communications facilities located at the SDN tandem switch and customer provided facilities.

Rates and charges for Switched Access Service are set forth in 6.8 following. The application of rates for Switched Access Service is described in 6.7 following.

6.1.1 Feature Group Arrangements and Manner of Provision

Switched Access Service is provided in three service categories called Feature Groups. These are differentiated by their technical characteristics and the manner in which an end user accesses them in originating calling, e.g., with or without an access code. The provision of each Feature Group requires Local Transport facilities and the appropriate End Office functions provided by Routing Exchange Carriers and other Exchange Telephone Companies which will bill its access charges in accordance with its tariff. There are various nonchargeable optional features available with Switched Access as set out in Section 5 preceding. In addition, Interim NXX Translation is Interim NXX provided in conjunction with Feature Group D Switched Access Service. Following is a brief description of each Feature Group arrangement and the Interim NXX Translation optional feature.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(A) Feature Group A (FGA)

FGA Access, which is available to all customers, provides line-side access to SDN's switch with an associated seven-digit local telephone number for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service of a customer-provided interstate communications capability. The customer must specify the Interexchange Carrier to which the FGA service is connected or, in the alternative, specify the means by which the FGA access communications are transported to another state. A more detailed description is provided in Section 6.2.1 following.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(B) Feature Group B (FGB)

FGB Access, which is available to all customers, provides trunk side access at a customer's point of termination with an associated uniform 950-0XXX or 950-1XXX access code for the customer's use in originating and terminating communications. A more detailed description of FGB Access is provided in 6.2.2 following.

(C) Feature Group D (FGD)

FGD Access, which is available to all customers, provides trunk side access at a customer's point of termination with an associated uniform 10XXX access code for the customer's use in originating and terminating communications.

International dialing may be provided as a capability associated with Feature Group D. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through standard FGD equipment.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(D) Interim NXX Translation

The Interim NXX Translation optional feature is an originating offering utilizing trunk side Switched Access Service and provides a customer identification function based on the dialed SAC and NXX code.

For example, when a 1+8XX+NXX-XXXX or a 1+9XX+NXX-XXXX call is originated by an end user, SDN will perform the customer identification function based on the dialed digits to determine the customer to which the call is to be routed. Once customer identification has been established, the call will be routed to the customer. Calls to customer assigned NXX codes which have not been ordered will be blocked.

The charge of Interim NXX translation is set forth in 6.8.1(D) following.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(E) Manner of Provision

Switched Access Service is furnished in lines, trunks or both Originating and Terminating busy hour minutes of capacity (BHMCs). SDN will determine the Access Transport facilities to be provided on the basis of the lines, trunks or busy hour minutes of capacity ordered as set forth in 5.2 preceding. Switched Access Service is furnished as a two-way access service between the customer's point of termination and points of interconnection of Routing Exchange Carriers set forth in Section 9 following.

BHMCs are differentiated by type and directionality of traffic carried over a Switched Access Service arrangement. Differentiation of traffic types is necessary for SDN to properly design Switched Access Service to meet the traffic carrying capacity requirement of the customer.

There are two major BHMC categories identified as: Originating and Terminating. Originating BHMCs represent access capacity for carrying traffic from the end user to the IC's point of termination at SDN's central access tandem. Terminating BHMCs represent access capacity for carrying traffic from the IC's point of termination at SDN's central access tandem to the end user.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.1 Feature Group Arrangements and Manner of Provision (Cont'd)

(E) Manner of Provision (Cont'd)

When ordering capacity for Switched Access Service, the customer must at a minimum specify such access capacity in terms of both Originating BHMCs and Terminating BHMCs.

Because some customers will wish to further segregate their originating traffic into separate trunk groups, Originating BHMCs are further categorized into Domestic, 8XX, 9XX, operator assisted, and IDDD. Domestic BHMCs represent access capacity for carrying only domestic traffic other than 8XX and 9XX traffic; operator assisted BHMCs represent access capacity for carrying traffic originated by dialing "0+"; IDDD BHMCs represent access capacity for carrying only international traffic; and, 8XX and 9XX BHMCs represent access capacity for carrying, respectively, only 8XX and 9XX traffic. When ordering such types of access capacity, the customer must specify Domestic, 8XX, 9XX, operator assisted, or IDDD BHMCs.

6.1.2 Ordering Options and Conditions

Access Service is ordered under the Access Order provisions set forth in Section 5. preceding. Also, included in that section are other charges which may be associated with ordering Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.)

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories

There are three basic rate categories which apply to the provision of Switched Access Service in conjunction with Centralized Equal Access Service:

- Centralized Equal Access (described in 6.1.3(A) following)
- Access Transport (described in 6.1.3(B) following)
- Chargeable optional features (described in 6.1.3(C) following)

The following diagram depicts a generic view of how Access Transport and Centralized Equal Access Service is combined with the service of the Routing Exchange Carriers set forth in Section 9. following to provide a complete Switched Access Service.

Legend

| | | |
|---|---|---|
| AT | - | Access Transport |
| CEAT | - | Centralized Equal Access Tandem |
| EO | - | End Office of an Exchange Telephone Company |
| POI | - | Point of Interconnection Between Facilities of SDN and Routing Exchange Carriers or, if applicable, Other Exchange Telephone Companies |
| POT | - | Point of Termination with facilities provided by IXCs |
| IXC | - | Interexchange Carrier |
| LEC | - | Local Exchange Carrier |
| SDN | - | South Dakota Network, LLC |

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Centralized Equal Access Service

The Centralized Equal Access Service rate category establishes the charges related to the tandem switching facilities that provide a concentration and distribution function for originating and terminating traffic between a Routing Exchange Carrier and IXCs. Centralized Equal Access Service is assessed on a per access minute basis at the rate set forth in 6.8.1 following. This Centralized Equal Access Service rate is applicable to all Feature Groups in both the originating and terminating directions. The application of the Centralized Equal Access rate to each Feature Group is described in Sections 6.7.1(A) and 6.7.1(E) following.

(B) Access Transport

Access Transport is a High Capacity (1.544 Mbps) frequency transmission path composed of facilities determined by SDN. The two-way frequency transmission path permits the transport of calls between SDN's central access tandem and a Routing Exchange Carrier's point of interconnection.

Access Transport is provided by SDN at a customer's point of termination located at SDN's central access tandem.

The Access Transport rate applies per access minute for transporting a customer's call between a customer's point of termination at SDN's central access tandem and a Routing Exchange Carrier's point of interconnection, when that point of interconnection is not collocated at the SDN access tandem premises. (i.e.: The Access Transport rate is not charged when a Routing Exchange Carrier's point of interconnection is collocated at the SDN access tandem premises.)

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Access Transport (Cont'd)

The Access Transport rate element also provides the functions necessary to complete the transmission of Switched Access communications to and from SDN's central access tandem.

Access Transport is assessed on a per access minute basis at the rate set forth in 6.8.1 following.

(1) Interface Groups

One Interface Group is provided for terminating the Access Transport at the customer's point of termination: Interface Group 6.

Interface Group 6 is provided with Type A or B Transmission Specifications depending on the Feature Group. All Interface Groups are provided with Data Transmission Parameters.

Only certain interfaces are available at the customer's point of termination. The various interfaces which are available are set forth in Section 15.1.6 and Section 15.1.11 following.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Access Transport (Cont'd)

(2) Nonchargeable Optional Features

Where transmission facilities permit, SDN will, at the option of the customer, provide the following nonchargeable optional features in association with Access Transport.

(a) Supervisory Signaling

Where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability, the customer may order an optional supervisory signaling arrangement for each transmission path provided as follows:

Interface Group 6 may, at the option of the customer be provided with individual transmission path SF supervisory signaling where such signaling is available in SDN's central access tandem. Generally, such signaling is available only where SDN's central access tandem provides an analog, i.e., non-digital, interface and a portion of the facility provided by the customer between SDN's central access tandem and the customer's switch is analog.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) Access Transport (Cont'd)

(2) Nonchargeable Optional Features (Cont'd)

(b) Customer Specified Entry Switch Receive Level

This feature allows the customer to specify the receive transmission level at SDN's central access tandem. The range of transmission which may be specified is described in Technical Reference TR-NWT-000334. This feature is available for Feature Groups A and B. *

* Issued under authority of Special Permission No. 91-616 of the Federal Communications Commission.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd

(C) Chargeable Optional Features

Where facilities permit, SDN will, at the option of the customer, provide the following chargeable optional features.

(1) Interim NXX Translation

The Interim NXX Translation rate element provides for customer identification of calls dialed by end users of the form 1+SAC+NXX-XXXX. The NXX codes are assigned to specific customers in conformance with the North American Numbering Plan (NANP). NXX code assignment(s) will be made by the Bellcore NANP Coordinator. SDN will use the NXX code to identify the customer to whose point of termination the traffic is to be delivered. It is then the responsibility of the customer to do any further translation the customer deems necessary to route the call. Customer assigned NXX codes which have not been ordered will be blocked. A nonrecurring charge, as set forth in 6.8.1 following is associated with this optional feature. This nonrecurring charge is assessed by SDN on a per order basis and is applied in lieu of the Access Order Charge specified in 5.2.3(A) preceding. The nonrecurring charge is assessed only by a company that provides the final translation function. A company is said to have provided the final Interim NXX Translation when its translation identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation. The description and application of this charge with respect to Feature Group D is as set forth in 6.7.1.(B) following.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.4 Design Layout Report

At the request of the customer, SDN will provide to the customer the makeup of the facilities and services provided. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

6.1.5 Acceptance Testing

At no additional charge, SDN will, at the customer's request, cooperatively test, at the time service is initiated, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling.

6.1.6 Routine Testing

At no additional charge, SDN will, at the customer's request, test after installation on an automatic or manual basis, 1004 Hz loss, C-message noise and Balance (Return Loss).

In the case of automatic testing, the customer shall provide remote office test lines and 105 test lines with associated responders or their functional equivalent.

The frequency of these test will be that which is mutually agreed upon by the customer and SDN, but shall consist of not less than quarterly 1004 Hz Loss and C-message noise tests and an annual Balance test. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as occurs basis.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.6 Routine Testing (Cont'd)

Additional tests may be ordered as set forth in 13.3.2 following. Charges for these additional tests are set forth in 13.3.2(C) following.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups

Switched Access Service is provided in three different Feature Group arrangements. The provision of each Feature Group requires Access Transport facilities.

There are two (2) specific transmission performances (i.e., Types A and B) that have been identified for the provision of Feature Groups. The parameters for the transmission specifications are set forth in Section 15.2.1.

Feature Groups are arranged with Centralized Equal Access Service for two-way calling. Originating calling permits the delivery of calls from Routing Exchange Carrier locations to the customer's point of termination. Terminating calling permits the delivery of calls from the customer's point of termination to Routing Exchange Carrier locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously.

Following are detailed descriptions of each of the available Feature Groups. Each Feature Group is described in terms of its specific physical characteristics and calling patterns, the transmission specifications with which it is provided, and the standard testing capabilities.

6.2.1 Feature Group A (FGA)

(A) Description

(1) FGA provides a line side termination at the first point of switching (centralized access tandem). The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(2) A seven digit local telephone number assigned by SDN is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the SDN switch and is of the form NXX-XXXX.

If the customer requests a specific seven digit telephone number that is not currently assigned, and SDN can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

(3) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction, FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(4) No address signaling is provided by SDN when FGA switching is used in the originating direction. Address signaling in such cases, if required by the customer must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by SDN and will be subject to the ordinary transmission capabilities of the Access Transport provided.

(5) FGA switching when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services of the Routing Exchange Companies, community information services of an information service provider, and other customers' services (by dialing the appropriate digits). Only those valid NXX codes served by end offices subtending SDN's access tandem may be accessed.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(A) Description (Cont'd)

(6) Charges for FGA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed by the Exchange Telephone Company (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community information services, for which rates are applicable under Exchange Telephone Company exchange service tariffs, e.g., 976 (DIAL IT) Network Services, and (3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rate when SDN performs the billing function for that customer.

(7) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.1 Feature Group A (FGA) (Cont'd)

(B) Transmission Specifications

FGA is provided with Type B Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(C) Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service and as ongoing routine testing, described in 6.1.6 preceding. Additional Cooperative Acceptance Testing is available as set forth in 13.3.2(D)(1) following.

6.2.2 Feature Group B (FGB)

(A) Description

(1) FGB is provided as trunk side switching through the use of access tandem switch trunk equipment at SDN's central access tandem. The switch trunk equipment is provided with wink start start-pulsing signals and answer and disconnect supervisory signaling.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

(2) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by SDN and will be subject to the ordinary transmission capabilities of the Access Transport provided.

(3) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-0XXX or 950-1XXX for customers. These uniform access codes will be the assigned access numbers of all FGB Switched Access Service provided to the customer by SDN.

(4) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services, community information services of an information service provider and other customers' services (by dialing the appropriate digits). Only those valid NXX codes served by end office switches subtending SDN's access tandem may be accessed via SDN.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(A) Description (Cont'd)

(4) (Cont'd)

The customer will also be billed additional non-access charges for calls to certain community information services for which rates are applicable, e.g., 976 (DIAL-IT) Network Service. Additionally, non-access charges will also be billed for calls from a FGB trunk to another customer's service in accordance with that customer's applicable service rate when SDN performs the billing function for that customer.

Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX codes, E911, Service Maintenance (611), Local Operator Assistance (0- and 0+), Directory Assistance (411 and 555-1212) or 10XXX access codes. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B or D.

The customer will also be billed access charges by Routing Exchange Carriers and other Exchange Telephone Companies for the provision of access service in their operating territories.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.2 Feature Group B (FGB) (Cont'd)

(B) Transmission Specifications

FGB is provided with Type B Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type DB Data Transmission Parameters are provided with FGB to SDN's central access tandem.

(C) Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing and Additional Automatic Testing will be provided as set forth in 13.3.2(A) following.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group D (FGD)

(A) Description

(1) FGD is provided at SDN's central access tandem.

(2) FGD is provided as trunk side switching to the end office through the use of access tandem switch trunk equipment at SDN's central access tandem. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.

(3) FGD switching is provided with multifrequency address signaling. Up to twelve (12) digits of the called party number dialed by the customer's end user using dual tone multifrequency address signals will be provided by SDN equipment to the customer's point of termination. Such address signals will be subject to the ordinary transmission capabilities of the Access Transport provided.

(4) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the LATA, time or weather announcement services, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. Only those valid NXX codes served by end office switches subtending SDN's central access tandem may be accessed.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(4) (Cont'd)

The customer will also be billed additional non-access charges for calls to certain community information services, for which rates are applicable, e.g., 976, (DIAL-IT) Network Services. Additionally, non-access charges will also be billed for calls from a FGD trunk to another customer's service in accordance with that customer's applicable service rates when SDN performs the billing function for that customer.

Calls in the terminating direction will not be completed to 950-0XXX or 950-1XXX access codes, emergency 911, service maintenance 611, directory assistance 411 or 555-1212, local operator assistance (0- and 0+), and 10XXX access codes. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups A or B.

The customer will also be billed access charges by Routing Exchange Carriers and other Exchange Telephone Companies for the provision of access service in their operating territories.

## CENTRALIZED EQUAL ACCESS SERVICE

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(5) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing the 10XXX uniform access code. Each telephone exchange service line may be marked with a code to identify which 10XXX code its calls will be directed to for interLATA and intraLATA service. A single access code will be the assigned number of all FGD access provided to the customer by SDN. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer.

Where no access code is required, the number dialed by the end user shall be a seven (7) or ten (10) digit number, where appropriate, for calls in the North American Number Plan (NANP). The form of the numbers dialed by the end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA+NXX-XXXX, 0 or 1+ NPA + NXX + XXXX, and for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

When the 10XXX access code is used, FGD switching also provides for dialing the digit 0 (zero) for access to the customer's operator, or the end-of-dialing digit (#) for cut-through access to the customer's premises, or 911 for access to the emergency reporting service of a Routing Exchange Carrier.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(6) When a customer has had FGB access and subsequently replaces the FGB access with FGD access, at the customer's request and where facilities permit, SDN will, for a period of ninety (90) days, direct calls dialed by the customer's end users using the customer's previous FGB access code to the customer's FGD access service. The customer must be prepared to handle normally dialed FGD calls as well as calls dialed with the FGB access code which requires the customer to receive additional address signaling from the end user. Such calls will be rated as FGD.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(A) Description (Cont'd)

(7) Unless prohibited by technical limitations, the customer's Interim NXX Translation traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's non-Interim NXX Translation traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for Interim NXX translation traffic.

(B) Transmission Performance

FGD is provided with Type A Transmission Specifications.

Type DA Data Transmission Parameters are provided for the transmission path between the customer's point of termination and the access tandem and between the access tandem and the end office.

(C) Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven (7) digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test

**CENTRALIZED EQUAL ACCESS SERVICE**

6. Switched Access Service (Cont'd)

6.2 Provision and Description of Switched Access Service Feature Groups (Cont'd)

6.2.3 Feature Group D (FGD) (Cont'd)

(C) Testing Capabilities (Cont'd)

line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.1.5 preceding which are included with the installation of service, Additional Cooperative Acceptance Testing and Additional Automatic Testing will be provided for FGD as set forth in 13.3.2(A) following.

6.3 Reserved for Future Use

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Transmission Specifications

Each Access Service transmission path is provided with standard transmission specifications. There are two different standard specifications (Type A and B). The standard for the transmission path is dependent on the Feature Group. The available transmission specifications are set forth in Section 15.2.1 following. Data transmission parameters are also provided with the switched Access Service transmission path. SDN will, upon notification by the customer that the data parameters set forth in 15.2.2 are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

All service configurations operated by SDN after the effective date of this tariff will conform to the transmission specifications contained in this tariff.

The transmission specifications contained in this Section are immediate action limits. Acceptance limits are set forth in Technical Reference TR-NWT-000334. This Technical Reference also provides the basis for determining Access Service maintenance limits. *

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## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Obligations of SDN

In addition to the obligations of SDN set forth in Section 2. preceding, SDN has certain other obligations pertaining only to the provision of Switched Access Service. These obligations are as follows:

6.5.1 Network Management

SDN will administer its network to ensure the provision of acceptable service levels to all telecommunications users of SDN's services. SDN maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of SDN or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by SDN result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(1) preceding.

6.5.2 Design and Traffic Routing of Switched Access Service

SDN will design and determine the routing of Switched Access Service and the selection of facilities between SDN's central access tandem and the end offices of the Routing Exchange Carriers serving the customer. For Feature Groups A, B, and D, SDN's Central Access Tandem will always be the first point of switching.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Obligations of SDN (Cont'd)

6.5.2 Design and Traffic Routing of Switched Access Service (Cont'd)

Finally, SDN will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment. Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and the SDN traffic routing plans.

6.5.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to SDN through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Obligations of SDN (Cont'd)

6.5.4 Trunk Group Measurement Reports

Subject to availability, SDN will make available trunk group data in the form of usage in call seconds, peg count and overflow, to the customer based on previously agreed to intervals.

6.5.5 Determination of Number of Transmission Paths

SDN will determine the number of Switched Access Service transmission paths to be provided for the Switched Access Services ordered. A transmission path is a derived communication path of a frequency bandwidth of approximately 300 Hz to 3000 Hz provided over a high speed digital facility between the point of interconnection and SDN's access tandem. The number of transmission paths will be developed using the total busy hour minutes of capacity by type (as described in 6.1.1(E) preceding) for each Feature Group ordered to SDN's central access tandem. The total busy hour minutes of capacity by type for the Feature Group will be converted to transmission paths using standard traffic engineering methods.

6.5.6 Reserved for Future Use

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Obligations of SDN (Cont'd)

6.5.7 Design Blocking Probability

SDN will design the facilities used in the provision of Switched Access Service to meet the blocking probability criteria as set forth in (A) through (C) following.

(A) For Feature Groups A and B, no design blocking criteria apply.

(B) For Feature Group D, the design blocking objective will be no greater than one percent (1%). Standard traffic engineering methods as set forth in reference document Telecommunications Transmission Engineering - Volume 3 - Networks and Services (Chapters 6-7) will be used by SDN to determine the number of transmission paths required to achieve this level of blocking. *

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## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Obligations of SDN (Cont'd)

6.5.7 Design Blocking Probability (Cont'd)

(C) SDN will perform routine measurement functions to assure that an adequate number of transmission paths are in service. SDN will recommend that additional busy hour minutes of capacity be ordered by the customer when additional paths are required to reduce the measured blocking to the design blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following table.

| Number of Transmission Paths Per Trunk Group | Measured Blocking Thresholds In the Time Consistent Busy Hour for the Number of Average Business Day Measurements Per Trunk Group | | | |
|---|---|---|---|---|
| | 15-20 Measurements | 11-14 Measurements | 7-10 Measurements | 3-6 Measurements |
| 2 | .045 | .055 | .060 | .095 |
| 3 | .035 | .040 | .045 | .060 |
| 4 | .035 | .040 | .045 | .055 |
| 5-6 | .025 | .035 | .040 | .045 |
| 7 or more | .020 | .025 | .030 | .040 |

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.6 Obligations of the Customer

In addition to the obligations of the customer set forth in Section 2. preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

6.6.1 Report Requirements

Customers are responsible for providing the following reports to SDN when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.9 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the interstate charges is set forth in 2.3.10 preceding.

6.6.2 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Centralized Access Service (Cont'd)

6.6 Obligations of the Customer (Cont'd)

6.6.3 Trunk Group Measurement Reports

With the agreement of the customer, trunk group data in the form of usage in call seconds, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to SDN. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

6.6.4 Design of Switched Access Services

When a customer orders Switched Access Service, the customer shall take reasonable steps to assure that sufficient access services have been ordered to handle its traffic.

6.6.5 Short Duration Mass Calling Requirements

When a customer offers service for which a substantial call volume is expected during a short period of time (e.g., 9XX service media stimulated events), the customer must notify SDN and the affected Routing Exchange Carriers listed in Section 9 following, at least 48 hours in advance of each peak period. Notification should include the nature, time, duration, and frequency of the event, an estimated call volume, and the telephone number(s) to be used.

On the basis of the information provided, SDN may invoke network management controls, (e.g., call gapping and code blocking) to reduce the probability of excessive network congestion. SDN will work cooperatively with the customer to determine the appropriate level of such control.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.7.1 Description and Application of Rates and Charges

There are two types of rates and charges that may apply to Switched Access Service. They are usage rates and nonrecurring charges.

(A) Usage Rates

Usage rates are rates that apply only when a specific rate element is used. These rates are applied on a per access minute basis. Usage rates are accumulated over a monthly period. The network blocking rate which is applied on a per call blocked basis, is accumulated and charged on a monthly basis.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity. The type of nonrecurring charge that is applied to Switched Access Service is: the Interim NXX Translation optional feature.

(1) Interim NXX Translation Optional Feature

This nonrecurring charge applies to the initial order for the installation of the Interim NXX Translation optional feature with Feature Group D Access Service and for each subsequent order received to add or change Interim NXX translation codes. This charge, if applicable, applies whether this optional feature is installed coincident with or at any time subsequent to the commencement of Access Service. This charge is applied by SDN per order. When it is necessary for multiple telephone companies to provide the translation function, the nonrecurring charge is assessed only by the company that provides the final translation function which identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(C) Administrative Changes

Changes which result in the establishment of new minimum period obligations are treated as discontinuances of existing service and installations of new service.

Administrative changes as follow will be made without changes to minimum period obligations:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.1 Description and Application of Rates and Charges (Cont'd)

(D) Reserved for Future Use

(E) Application of the Access Transport Rate

The Access Transport rate applies per access minute.

6.7.2 Reserved for Future Use

6.7.3 Change of Feature Group Type

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Measuring Access Minutes

Customer traffic to and from end offices of the Routing Exchange Carriers set forth in Section 9. following will be measured (i.e., recorded) by SDN at its central access tandem. Originating and terminating calls will be measured (i.e., recorded) by SDN to determine chargeable access minutes. In the event the customer message detail is not available because SDN lost or damaged tapes or incurred recording system outages, SDN will estimate the volume of lost customer access minutes of use based on previously known values.

FGA, FGB and FGD access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

(A) Feature Group A Usage Measurement

Customer Feature Group A traffic to SDN's central access tandem will be measured (i.e., recorded) by SDN at its central access tandem. Originating and terminating calls will be measured (i.e., recorded) by SDN to determine the chargeable access minutes.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

(A) Feature Group A Usage Measurement (Cont'd)

For terminating calls over FGA and for originating calls over FGA (when the off-hook supervisory signal is provided by the customer's equipment before the called party answers), the measured minutes are the chargeable access minutes. For originating calls over FGA (When the off-hook supervisory signal is forwarded by the customer's equipment when the called party answers), chargeable originating access minutes are the measured minutes.

For originating calls over FGA, usage measurement begins when the originating FGA first point of switching receives an off-hook supervisory signal forwarded from the customer's point of termination. This off-hook signal may be provided by the customer's equipment before the called party answers, or forwarded by the customer's equipment when the called party answers.

The measurement of originating call usage over FGA ends when the originating FGA first point of switching receives on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected or the customer's point of termination, whichever is recognized first by the first point of switching.

The terminating calls over FGA, usage measurement begins when the terminating FGA first point of

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

(A) Feature Group A Usage Measurement (Cont'd)

switching receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA first point of switching receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

(B) Feature Group B Usage Measurement

For originating calls over FGB, usage measurement begins when SDN's central access tandem receives trunk seizure acknowledgement from the customer's switch indicating the customer is ready to receive the call.

The measurement of originating call usage over FGB ends when SDN's central access tandem receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's switch, whichever is recognized first by SDN's central access tandem.

For terminating calls over FGB, the measurement of access minutes begins when the terminating FGB first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

(B) Feature Group B Usage Measurement (Cont'd)

The measurement of terminating call usage over FGB ends when SDN's central access tandem receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's switch, whichever is recognized first by SDN's central access tandem.

(C) Feature Group D Usage Measurement

For originating calls over FGD, usage measurement begins when SDN's central access tandem receives the first wink supervisory signal forwarded from the customer's switch. The measurement of originating call usage over FGD ends when SDN's central access tandem receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's switch, whichever is recognized first by SDN's central access tandem.

For terminating calls over FGD, the measurement of access minutes begins when the SDN central access tandem receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.4 Measuring Access Minutes (Cont'd)

(C) Feature Group D Usage Measurement (Cont'd)

The measurement of terminating call usage over FGD ends when SDN's central access tandem receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's switch, whichever is recognized first by SDN's central access tandem.

6.7.5 Network Blocking Charge for Feature Group D

The customer will be notified by SDN to increase its busy hour minutes of capacity when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed that purchased. Excessive trunk group blocking occurs when the blocking thresholds stated below are exceeded. They are predicated on time consistent, hourly measurements over a thirty (30) day period excluding Saturdays, Sundays and national holidays. If the order for additional capacity has not been received by SDN within fifteen (15) days of the notification, SDN will bill the customer, at the rate set forth in 6.8.1(B) following, for each overflow in excess of the blocking threshold when (1) the average "30-day period" overflow exceeds the threshold level for any particular hour and (2) the "30-day period" measured average originating or two-way usage for the same clock hour exceeds the capacity purchased.

## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Rate Regulations (Cont'd)

6.7.5 Network Blocking Charge for Feature Group D (Cont'd)

Blocking Thresholds

| Trunks in Service | 1/2% |
|---|---|
| 1-2 | .045 |
| 3-4 | .035 |
| 5-6 | .025 |
| 7 or greater | .020 |



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## CENTRALIZED EQUAL ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.8 Rates and Charges

6.8.1 Usage and Nonrecurring Rates

| | | Rate Per Access Minute | |
|---|---|---|---|
| (A) | Access Transport | $0.0076 | (I) |
| | | **Rate Per Call Blocked** | |
| (B) | Network Blocking Charge | $0.0271 | |
| | | **Rate Per Access Minute** | |
| (C) | Centralized Equal Access | $0.0070 | (I) |
| | | **Rate Per Order** | |
| (D) | Interim NXX Translation | $181.00 | |

**CENTRALIZED EQUAL ACCESS SERVICE**

7.

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## CENTRALIZED EQUAL ACCESS SERVICE

8. Customer's Point of Interconnection Information

8.1 General Information

Centralized Equal Access Service is available to customers that interconnect with SDN's facilities at SDN's central access tandem.

8.2 Customer's Point of Termination

SDN's Central Access Tandem

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## CENTRALIZED EQUAL ACCESS SERVICE

9. Routing Exchange Carriers

9.1 Exchange Carriers

The Routing Exchange Carriers listed in this section route access traffic to SDN's central access tandem. They are also identified in the National Exchange Carrier Association's (NECA's) Tariff F.C.C. No. 4. More information about individual end offices can be found in NECA Tariff F.C.C. 4. *

The names of the Routing Exchange Carriers are as follows:

Baltic Telecom Cooperative
Brookings Municipal Telephone
Cheyenne River Sioux Tribal Telephone Authority
Golden West Telecommunications Cooperative, Inc.
Interstate Telecommunications Cooperative, Inc.
James Valley Cooperative Telephone Company
McCook Cooperative Telephone Company
Midstate Telephone Company
Sanborn Telephone Cooperative
Sioux Valley Telephone Company
Splitrock Telecom Cooperative, Inc.
Sully Buttes Telephone Cooperative, Inc.
Tri-County Mutual Telephone Company
Valley Telecommunications Cooperative Association, Inc.
West River Cooperative Telephone Company

Routing Exchange Carriers Total 15

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**CENTRALIZED EQUAL ACCESS SERVICE**

10.

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## CENTRALIZED EQUAL ACCESS SERVICE

11.

RESERVED FOR FUTURE USE

## CENTRALIZED EQUAL ACCESS SERVICE

12.

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## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services

In this section, normally scheduled working hours (basic time) are an employee's scheduled work period in any given calendar day (e.g., 8:00 a.m. to 5:00 p.m.) for the application of rates based on working hours. Overtime is described as "any time that an SDN employee effort is expended on a normally scheduled work day, but outside of regularly scheduled working hours" (e.g. 5:01 p.m. to 7:59 a.m. Monday through Friday.)

Premium time is described as "anytime that an SDN employee effort is expended on a non scheduled work day" (e.g. weekends and holidays).

A Miscellaneous Service Order Charge applies to any service, or combination of services ordered simultaneously from this section of the Tariff for which a service order is not already pending or one which does not have the charge applied. The Miscellaneous Service Order Charge is an administrative charge designed to compensate for the expenses associated with service order issuance.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.1 Additional Engineering

Additional Engineering will be provided by SDN at the request of the customer only when:

(A) A customer requests additional technical information after SDN has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 6.1.4 preceding.

(B) Reserved for Future Use

(C) A customer requests a Design Change, and additional engineering time is incurred by SDN for the engineering review as set forth in 5.2.3(C). The charge for additional engineering will apply whether or not SDN proceeds with the design change.

SDN will notify the customer that additional engineering charges, as set forth in 13.1.1. following, will apply before any additional engineering is undertaken.

13.1.1 Charges For Additional Engineering

The charges for additional engineering are as follows:

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.1 Additional Engineering (Cont'd)

13.1.1 Charges For Additional Engineering (Cont'd)

| Additional Engineering Periods | | Each Half Hour or Fraction Thereof |
|---|---|---|
| (A) | Basic Time normally scheduled working hours, per engineer | $15.28 |
| (B) | Overtime, outside of normally scheduled working hours, per engineer | $22.92 |
| (C) | Premium Time, outside of scheduled work day, per engineer | $30.56 |

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor

Additional labor is that labor requested by the customer on a given service and agreed to by SDN as set forth in 13.2.1 through 13.2.5 following. SDN will notify the customer that additional labor charges as set forth in 13.2.6 following will apply before any additional labor is undertaken.

13.2.1 Overtime Installation

Overtime installation is that SDN installation effort outside of regularly scheduled working hours.

13.2.2 Overtime Repair

Overtime repair is that SDN maintenance effort performed outside of regularly scheduled working hours.

13.2.3 Stand By (Repair or Acceptance Testing)

Stand By includes all time in excess of one-half (1/2) hour during which SDN personnel stand by to make installation acceptance tests or cooperative acceptance tests with a customer to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Exchange Telephone Companies

Additional testing, maintenance or repair of facilities which connect to facilities of Exchange Telephone Companies which is in addition to normal effort required to test, maintain or repair facilities provided solely by SDN.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.5 Other Labor

Other labor is that additional labor not included in 13.2.1 through 13.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

13.2.6 Charges for Additional Labor

The charges for additional labor are as follows:

(A) Installation or Repair

| Additional Labor Periods | Each Half Hour or Fraction Thereof |
|---|---|
| - Overtime, outside of regularly scheduled working hours, on a scheduled work day, per technician | $22.58* |
| - Premium Time, outside of scheduled work day, per technician | $30.11* |

* A call-out of an SDN employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four (4) hours.



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## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.6 Charges for Additional Labor (Cont'd)

(B) Stand By

| Additional Labor Periods | Each Half Hour or Fraction Thereof |
|---|---|
| - Basic Time, regularly scheduled working hours, per technician | $15.05 |
| - Overtime, outside of regularly scheduled working hours, on a scheduled work day, per technician | $22.58* |
| - Premium Time, outside of scheduled work day, per technician | $30.11* |

* A call-out of an SDN employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four (4) hours.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.2 Additional Labor (Cont'd)

13.2.6 Charges For Additional Labor (Cont'd)

The charges for additional labor are as follows:

| Additional Labor Periods | Each Half Hour or Fraction Thereof | |
|---|---|---|
| | Installation and Repair Technician | Central Access Tandem Maintenance Technician |
| (C) Testing and Maintenance with Exchange Telephone Companies, or Other Labor | | |
| - Basic Time, regularly scheduled working hours, per technician | $15.05 | $14.95 |
| - Overtime, outside of regularly scheduled working hours on a scheduled work day, per technician | $22.58* | $22.42* |
| - Premium Time, outside of scheduled work day, per technician | $30.11* | $29.89* |

* A call-out of an SDN employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four (4) hours.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services

13.3.1 Maintenance of Service

(A) When a customer reports a trouble to SDN for clearance and no trouble is found in SDN's facilities, the customer shall be responsible for payment of a Maintenance of Service charge for the period of time from when SDN personnel are dispatched until the work is completed. Failure of SDN personnel to find trouble in SDN facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

(B) The customer shall be responsible for payment of a Maintenance of Service charge when SDN dispatches personnel and the trouble is in equipment or communications systems provided by other than SDN.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service charge applies.

(C) The charges for Maintenance of Service are as follows:

| Maintenance of Service Periods | Each Half Hour or Fraction Thereof |
|---|---|
| Basic Time, Overtime* and Premium Time* | See the rates for Additional Labor set forth in 13.2.6(C) preceding. |

* A call-out of an SDN employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four (4) hours.



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## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Testing Services

SDN will, in addition to any customer requested acceptance testing, perform such tests as it believes necessary to ensure that the access services ordered by a customer are functioning properly prior to furnishing such access services to the customer. In addition, SDN, as part of the ongoing work to maintain the continued satisfactory performance of the access services ordered by the customer, may perform periodic tests.

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 13.3.2(C) following. Other testing services, as described in 6.1.5 and 6.1.6 preceding, are provided by SDN in association with Access Services and are furnished at no additional charge. Testing Services are normally provided by SDN personnel at SDN locations. In addition, SDN will, at the request of the customer, perform Acceptance Testing with the customer in accordance with the provisions set forth in Section 6. preceding.

The offering of Testing Services under this section of the Tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A), (B) and (C) following.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Testing Services (Cont'd)

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, and (b) tests which are performed after acceptance of such access services by a customer, i.e., in-service tests. These in-service tests may be further divided into two broad categories of tests: scheduled and nonscheduled.

Scheduled tests are those tests performed by SDN on a regular basis, as set forth in Section 6.1.6 preceding which are required to maintain Switched Access Service. Scheduled tests may be done on an automatic basis (no SDN or customer technicians involved) or on a cooperative basis (SDN technician(s) involved at SDN's office and customer technicians involved at customer location(s)).

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing (ACAT) of Switched Access Service involves SDN provision of a technician at its office and the customer provides a technician at its location(s), with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(1) Additional Cooperative Acceptance Testing (Cont'd)

. C-Notched Noise
. Impulse Noise
. Phase Jitter
. Signal to C-Notched Noise Ratio
. Intermodulation (Nonlinear) Distortion
. Frequency Shift (Offset)
. Envelope Delay Distortion
. Dial Pulse Percent Break

(2) Additional Automatic Testing

Additional Automatic Testing (AAT) of Switched Access Services (Feature Groups B and D), where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent, will consist of monthly loss and C-message noise tests and an annual balance test. However, the customer may specify a more frequent schedule of tests. In addition to the loss/noise/balance tests, the customer may also order, at additional charges, gain-slope and C-notched noise testing.

SDN will provide an AAT report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Testing Services (Cont'd)

(A) Switched Access Service (Cont'd)

(3) Reserved for Future Use

(4) Obligations of the Customer

(a) The customer shall provide the Remote Office Test Line priming data to SDN as appropriate, to support AAT as set forth in 13.3.2(A)(2) preceding.

(B) Reserved for Future Use

(C) Rates and Charges

(1) Switched Access

(a) Additional Cooperative Acceptance Testing

| Testing Period | Each Half Hour or Fraction Thereof |
|---|---|
| Basic Time, Overtime* and Premium Time* | See the rates for Additional Labor as set forth in 13.2.6(C) preceding. |

* A call-out of an SDN employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four (4) hours.



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## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.2 Testing Services (Cont'd)

(C) Rates and Charges (Cont'd)

(1) Switched Access (Cont'd)

(b) Additional Automatic Testing (AAT)

The Additional Tests as set forth following may be ordered by the customer, at additional charges, 60 days prior to the start of the customer prescribed scheduled.

To First Point of Switching

Additional Tests

| | Per Test Per Transmission Path |
|---|---|
| Gain-Slope Tests | $2.89 |
| C-Notched Noise Tests | $2.89 |
| 1004 Hz Loss* | $2.89 |
| C-Message Noise* | $2.89 |
| Balance (return loss)* | $2.89 |

* 1004 Hz Loss, C-Message Noise and Balance are non-chargeable routine tests, however, they may be requested on an as needed or more than routine scheduled basis, in which case the charges herein apply.

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.3 Provision of Access Service Billing Information

(A) The customer will receive its monthly bills in a standard paper format.

(B) At the option of the customer, and for an additional charge:

(1) Customer monthly bills may be provided on magnetic tape.

(2) Billing detail and/or information may be transmitted to the customer location by data transmission.

(3) Additional copies of the customer monthly bill or service and features record may be provided in standard paper or microfiche format.

(C) Upon acceptance by SDN of an order for data transmission, SDN will determine the period of time to implement the transmission of such material on an individual order basis.

(D) The rates and charges for the provision of Access Service Billing Information are as follows:

| | | Rates |
|---|---|---|
| (1) | Provision of Standard Bill Detail and/or Information in magnetic tape format, per record | ICB rates and charges apply |

## CENTRALIZED EQUAL ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.3 Provision of Access Service Billing Information (Cont'd)

(D) (Cont'd)

| | | Rates |
|---|---|---|
| (2) | Data Transmission to a customer Location of Bill Detail and/or Information, per record transmitted | ICB rates and charges apply |
| (3) | Additional Copies of customer monthly bill or service and features record in standard paper or microfiche format<br>per page<br>per microfiche record and | ICB rates and charges apply |

**CENTRALIZED EQUAL ACCESS SERVICE**

14.

RESERVED FOR FUTURE USE

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces

15.1 Access Transport Interface Groups

Interface Group 6 is provided with Type A or B Transmission Specifications, depending on the Feature Group. This Interface Group is provided with Data Transmission Parameters.

Only certain interfaces are available at the customer's points of interconnection. The interfaces associated with the Interface Group may vary among Feature Groups. The various interfaces which are available with the Interface Group, and the Feature Groups with which it may be used, are set forth in 15.1.11 following.

15.1.1 Reserved for Future Use

15.1.2 Reserved for Future Use

15.1.3 Reserved for Future Use

15.1.4 Reserved for Future Use

15.1.5 Reserved for Future Use

15.1.6 Interface Group 6

Interface Group 6 provides DS1 level digital transmission at the points of interconnection. The interface is capable of transmitting signals at a nominal 1.544 Mbps. SDN will provide, at the first point of switching, a DS1 signal in D3/D4 format.

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.1 Access Transport Interface Groups (Cont'd)

15.1.6 Interface Group 6 (Cont'd)

The interface is provided with individual transmission path bit stream supervisory signaling.

15.1.7 Reserved for Future Use

15.1.8 Reserved for Future Use

15.1.9 Reserved for Future Use

15.1.10 Reserved for Future Use

15.1.11 Available Interface Codes

Following is a matrix showing, for the Interface Group, which interface codes are available as a function of SDN switch supervisory signaling and Feature Group.

| Interface Group | Telephone Company Switch Supervisory Signaling | Interface Code | Feature Group A | B | D |
|---|---|---|---|---|---|
| 6 | L0, G0 | 4DS9-15 | X | | |
| | L0, G0 | 4DS9-15L | X | | |
| | RV, EA, EB, EC | 4DS9-15 | | X | X |
| | RV, EA, EB, EC | 4DS9-15L | | X | X |

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service

15.2.1 Standard Transmission Specifications

Following are descriptions of the two Standard Transmission Specifications available with Switched Access Service Feature Groups. The specific applications in terms of the Feature Groups are set forth in 6.2.1(B), 6.2.2(B) and 6.2.3(B) preceding.

(A) Type A Transmission Specifications

Type A Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is ±2.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

| Route Miles | C-Message Noise |
|---|---|
| Less than 50 | 32 dBrnCO |
| 51 to 100 | 34 dBrnCO |
| 101 to 200 | 37 dBrnCO |
| 201 to 400 | 40 dBrnCO |
| 401 to 1000 | 42 dBrnCO |



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## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.1 Standard Transmission Specifications (Cont'd)

(A) Type A Transmission Specifications (Cont'd)

(4) C-Notched Noise

The maximum C-Notched Noise, utilizing a -16 dBmO holding tone, is less than or equal to 45 dBrnCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is equal to or greater than the following:

| Echo Return Loss | Singing Return Loss |
|---|---|
| 16 dB | 11 dB |

(B) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is +2.5 dB.

(2) Attentuation Distortion

The maximum Attentuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

| | C-Message Noise* | |
|---|---|---|
| Route Miles | Type B1 | Type B2 |
| Less than 50 | 32 dBrnCO | 35 dBrnCO |
| 51 to 100 | 33 dBrnCO | 37 dBrnCO |
| 101 to 200 | 35 dBrnCO | 40 dBrnCO |
| 201 to 400 | 37 dBrnCO | 43 dBrnCO |
| 401 to 1000 | 39 dBrnCO | 45 dBrnCO |

(4) C-Notched Noise

The maximum C-Notched Noise, utilizing a -16 dBmO holding tone is less than or equal to 47 dBrnCO.

(5) Echo Control

Echo Control, identified as Impedance Balance for FGB and Equal Level Echo Path Loss for FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL) also differ by Feature Group. They are greater than or equal to the following:

* For Feature Group D only, Type B2 will be provided. For Feature Group B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NWT-000334. **

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## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.1 Standard Transmission Specifications (Cont'd)

(B) Type B Transmission Specifications (Cont'd)

(5) Echo Control (Cont'd)

| | Echo Return Loss | Singing Return Loss |
|---|---|---|
| For FGB access | 8 dB | 4 dB |
| For FGD access (Effective 4-Wire transmission path at end office) | 16 dB | 11 dB |
| For FGD access (Effective 2-Wire transmission path at end office) | 13 dB | 6 dB |

15.2.2 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. The specific applications in terms of the Feature Groups with which they are provided are set forth in 6.2.1(B), 6.2.2(B), and 6.2.3(B) preceding. Following are descriptions of each.

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.2 Data Transmission Specifications (Cont'd)

(A) Data Transmission Parameters Type DA

(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

| | |
|---|---|
| less than 50 route miles | 500 microseconds |
| equal to or greater than 50 route miles | 900 microseconds |

1004 to 2404 Hz

| | |
|---|---|
| less than 50 route miles | 200 microseconds |
| equal to or greater than 50 route miles | 400 microseconds |

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBrnCO threshold in fifteen (15) minutes is no more than fifteen (15) counts.

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.2 Data Transmission Parameters Type DA (Cont'd)

(A) Data Transmission Parameters Type DA (Cont'd)

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

| | |
|---|---|
| Second Order (R2) | 33 dB |
| Third Order (R3) | 37 dB |

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5 degrees peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

(B) Data Transmission Parameters Type DB

(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than thirty (30) dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

## CENTRALIZED EQUAL ACCESS SERVICE

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.2 Data Transmission Parameters (Cont'd)

(2) Envelope Delay Distortion (Cont'd)

604 to 2804 Hz

| | |
|---|---|
| less than 50 route miles | 800 microseconds |
| equal to or greater than 50 route miles | 1000 microseconds |

1004 to 2404 Hz

| | |
|---|---|
| less than 50 route miles | 320 microseconds |
| equal to or greater than 50 route miles | 500 microseconds |

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnCO threshold in fifteen (15) minutes is no more than fifteen (15) counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

| | |
|---|---|
| Second Order (R2) | 31 dB |
| Third Order (R3) | 34 dB |

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7 degrees peak-to-peak.

**CENTRALIZED EQUAL ACCESS SERVICE**

15. Interface Groups, Transmission Specifications and Channel Interfaces (Cont'd)

15.2 Transmission Specification Switched Access Service (Cont'd)

15.2.2 Data Transmission Parameters (Cont'd)

(B) Data Transmission parameters Type DB (Cont'd)

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.